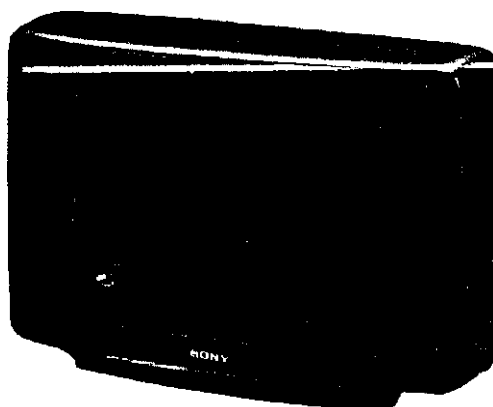


# KV-C2161D C2561D C2961D

## RM-816

## SERVICE MANUAL

*AEP Model*



### AE-1C CHASSIS

KV-C2161D  
C/Ass's A/o. SCC-F 07 K-A  
KV-C2561 D  
Chassis No. SCC-F 07 F-A  
KV-C2961 D  
Chassis No. SCC-F 07 E-A

MODELS OF THE SAME SERIES	
KV-C2161D/C2561D/C2961D	
KV-C2551E/C2951E	
KV-C2560B/C2960B	

### SPECIFICATIONS

[ KV-C 2161 D, KV-C 2561 D, KV-C 2961 D]

Television system	B/G/H
Color system	PAL, SECAM, NTSC3.58, NTSC4.43
Stereo system	GERMAN stereo
Channel coverage	VHF: E2-E12 UHF: E21-E69 CABLE TV (1) :S1-S41 CABLE TV (2) : S 01-S 05, M 1-M 10, U 1-U 10
Picture tube	Hi-Black Trinitron tube Approx. 54.5 cm (21 inches) (KV-C 2161 D) (Approx. 51 cm picture measured diagonally) 100 ° degree deflection Approx. 63.5 cm (25 inches) (KV-C 2561 D) (Approx. 59 cm picture measured diagonally) 110 ° degree deflection Approx. 72.4 cm (29 inches) (KV-C 2961 D) (Approx. 68 cm picture measured diagonally) 110 ° degree deflection

### Inputs / Outputs Terminals

#### REAR

-& 21 pin Euro connector (CENELEC standard)	-Inputs for audio and vido signals -Inputs for RGB -Outputs of TV video an (audio signals)
Q-2/-021-pin Euro connector	-Inputs for audio and vido signals -Inputs for S-video -Outputs for video and aiii signals (selectable)
O Audio output(variable)	-phonojacks

#### FRONT

-Q Video input phono jack  
-O Audio inputs (L,R) phono jacks  
S-video Inputs-4 pin DIN  
Headphone jack : stereo mini jack

-Continued no next page-

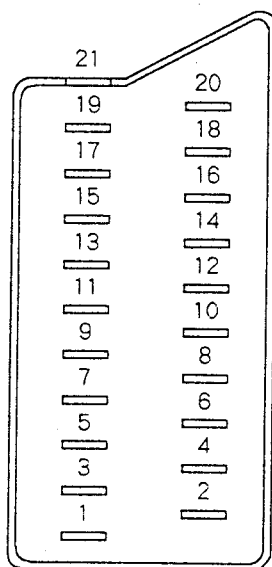
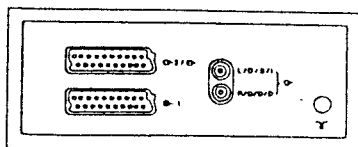
TRINITRON COLOR TV  
**SONY**®

**Sound output** 15 W + 15 W  
**Power consumption** 87 Wh (KV-C2161D)  
 101 Wh (KV-C2561D)  
 108 Wh (KV-C2961D)  
**Dimensions** Approx. 645 × 433 × 495 mm (w/h/d)  
 (KV-C2161D)  
 Approx. 720 × 497 × 480 mm (w/h/d)  
 (KV-C2561D)  
 Approx. 814 × 558 × 508 mm (w/h/d)  
 (KV-C2961D)  
**Weight** Approx. 25kg (KV-C2161D)  
 Approx. 38kg (KV-C2561D)  
 Approx. 52kg (KV-C2961D)  
**Supplied accessories** RM-816 Remote Commander (1)  
 IEC designation R6 batteries (2)

**[RM-816]**  
**Remote control system** infrared control  
**Power requirements** 3V dc  
 2 batteries IEC designation  
 R6 (size AA)  
**Dimensions** Approx. 75 × 221 × 23mm(w/h/d)  
**Weight** Approx. 230g (including batters)  
**Accessories supplied** IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

21 pin connector ( 1 2 )



Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
2	○	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
3	○	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
7	○	●	●	Blue input	0.7 ± 3dB, 75ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7V ± 3dB, 75ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	-	-	Red input	0.7V ± 3dB, 75ohms, positive
	-	○	○	(S signal) chroma input	0.3V ± 3dB, 75ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive Sync : 0.3V (-3, +
20	○	-	-	Video input	1V ± 3dB, 75ohms, positive Sync : 0.3V (-3, +
	-	○	○	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync : 0.3V (-3, + 10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● unconnected (open) \* at 20Hz - 20kHz

4 Pin connector ( 3 )

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V ± 3 dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive


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## CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

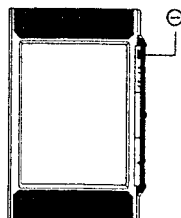
## SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

# SECTION 1 GENERAL

## 1-1. SWITCHING ON/OFF

After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).

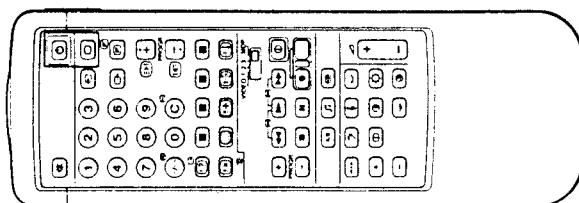


### How to turn the TV on

Action	Result
Press  on the TV.	The TV will turn on. Note: If the screen remains blank, the TV may be in the standby mode. Press  or any number button on the commander to switch it on.

### How to turn the TV off

<b>A Temporarily</b> Press  to enter standby mode.	The TV will be in standby. To return to the TV mode press .
<b>B Completely</b> Press  on the TV.	The TV will turn off.



## 1-2. PRESETTING

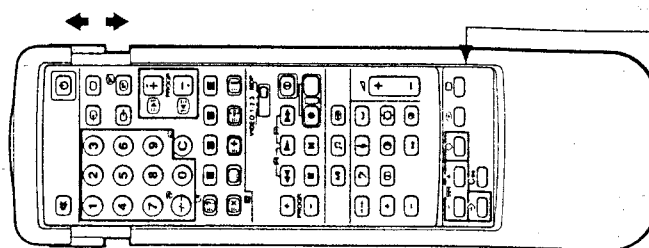
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

After you have installed this TV you need to preset TV channels. TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers of this TV before you can watch the TV programmes.  
There are 60 spaces for storing these channels.  
Slide open the full function side of the remote commander to reveal preset buttons.

### How to preset channels automatically

If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset T.V. channels directly".

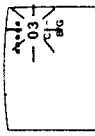
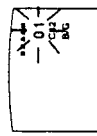
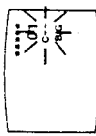


Action	Result
<b>1</b> Press  to enter the preset mode.	The programme number will start flashing.
<b>2</b> Press PROG + or - or the number buttons to select the programme number to which you want to preset channels.  Note To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3.	The programme number changes.
<b>3</b> Press  + or - once to search forward or backward for channels.  Note When a channel is tuned in, the search will stop. If you want to skip a channel, press  + or .	When a channel is tuned in, the search will stop. Note: If you want to skip a channel, press  + or .
<b>4</b> Press  if you want to store the channel which is tuned in. Press  to exit preset mode without storing.	The channel is now stored and you have returned to TV mode.
<b>5</b> Repeat steps 1 to 4 to store the other channels.	

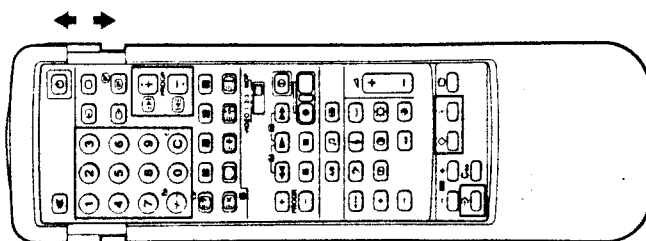


Note: These buttons should be used in preset mode only.



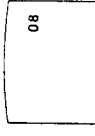

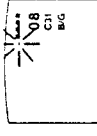
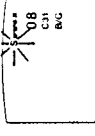
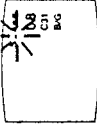

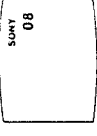
## How to preset channels directly

<b>Action</b> <b>1</b> Press $\rightarrow$ to enter the preset mode.	<b>Result</b>  The programme number will start flashing.
<b>2</b> Press PROGR +/- or the number buttons to select the programme number on which you want to preset a channel.	<b>Result</b>  The programme number changes.
<b>Note</b> To select a double-digit number, use the +/- button. For example, if you want to choose 23, press +/-, 2, and then 3.	<b>3</b> Press C.
<b>4</b> Select the channel number with two digits (e.g. 04) by pressing the number buttons.	<b>Result</b>  The indication "C--" ("S--" for a cable channel) starts flashing on the display.
<b>Note</b> Note If you have made a mistake the letter "X" will appear. Repeat step 4 again.	<b>5</b> Press $\diamond$ to store the channel which is tuned in.
<b>Note</b> Press the second number within 5 seconds after the first one, otherwise the operation will be cancelled.	<b>Result</b>  The channel is now stored and you have returned to TV mode.
<b>5</b> Press $\rightarrow$ to exit the preset mode without storing.	<b>Result</b>  The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 5 to store the other channels.	



## How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).

<b>Action</b> <b>1</b> Select a programme number you want to name by pressing the PROGR +/- or the number buttons.	<b>Result</b>  The selected programme number will appear.
<b>2</b> Press $\rightarrow$ .	<b>Result</b>  The programme number starts flashing.
<b>3</b> Press $\square$ .	<b>Result</b>  The first column of the station name indication will start flashing.
<b>4</b> Press + or - to select a letter in the alphabet, a number, or a blank space.	<b>Result</b>  The letters of the alphabet, numbers and the space (" ") will appear sequentially.
<b>5</b> Press $\square$ .	<b>Result</b>  The first character is now set and the second column will start flashing.
<b>6</b> Repeat steps 4 and 5 to set each letter.	<b>Result</b>  The channel name is now stored and you have returned to TV mode.
<b>7</b> Press $\diamond$ .	<b>Result</b>  The channel name is now stored and you have returned to TV mode.

## How to tune in a channel temporarily

You can tune a channel in temporarily, if it has not been preset.

<b>Action</b> <b>1</b> Press C.	<b>Result</b> The indication "C" ("S" for cable channels) appears on the screen.
<b>2</b> Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.)	<b>Result</b> The channel is received, but it is not stored to any programme number.

## 1-3. BASIC TV OPERATION

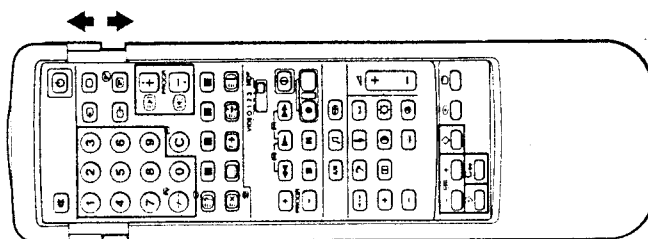
This section introduces you to the basic control functions which are available on the simple side of the remote commander.

### How to Skip Programmes

Using the PROG +/– buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

Action	Result
<b>1</b> Press $\rightarrow$ to enter the preset mode.	The programme number will start flashing.
<b>2</b> Select the programme number that you want to skip by pressing PROG +/– or the number buttons.	The programme number changes.
<b>3</b> Press Coo.	The lowest channel number appears under the programme number.
<b>4</b> Press $\diamond$ .	The channel is now stored and you have returned to TV mode.

Repeat steps 1 to 4 to skip other programme numbers.



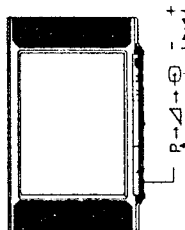
### How to Fine Tune Manually

If the picture is distorted, you can fine tune the channel manually.

Action	Result
Press $\leftarrow$ + or – repeatedly until the picture looks normal.	The indication $\leftarrow$ F $\rightarrow$ appears on the screen.
Press $\rightarrow$ to enter the preset mode.	The programme number starts flashing.
Press $\diamond$ .	The fine tuning is stored.

**Note:** The automatic fine tuning will function again when you preset the channel once more.

**Note:** Press  $\downarrow$  on door to open.



### How to Select Programmes

Before you can select programmes make sure that you have preset channels.

Action	Result
Press PROG +/– or the number buttons. To select a double-digit number, use the –/– button. For example, if you want to choose 23, press –/–, 2, and then 3.	The selected programme is displayed.

### How to Adjust the Volume

Action	Result
Press $\Delta$ + or –.	The volume markers will appear.

### How to Use Additional Functions

#### How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the P  $\rightarrow$   $\Delta$   $\rightarrow$   $\diamond$  and  $\rightarrow$   $\leftarrow$  +/– buttons on the front of the TV.  
For operation, first press the P  $\rightarrow$   $\Delta$   $\rightarrow$   $\diamond$  button repeatedly so that the P (for programme) or  $\Delta$  (for volume) indication appears on the screen, and then adjust with the  $\rightarrow$   $\leftarrow$  +/– buttons.

#### How to view the teletext

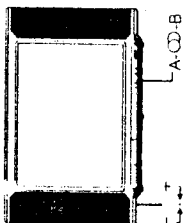
Press  $\diamond$ . To return to the TV mode, press  $\diamond$ .  
For details about the teletext operation.

#### How to view the video input picture

Press  $\diamond$ . To return to the TV mode, press  $\diamond$ . For further details.

## 1-4. ADVANCED TV OPERATION

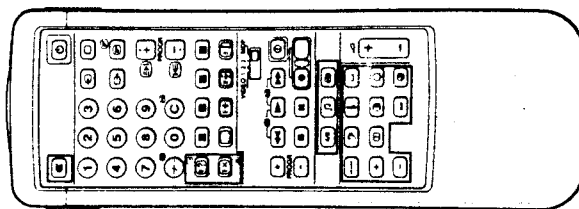
This section shows you how to use convenient features and how to adjust the picture and sound to your taste. Use the full-function side of the Remote Commander.



### How to use on-screen display and special sound features

You can enjoy the following convenient features.

How to	Action	To resume normal picture/sound
Display on-screen indications	Press <b>[A]</b>	Indications disappear after some seconds
Display programme numbers	Press <b>[C]</b> twice	Press <b>[C]</b> twice again
Mute the sound	Press <b>[M]</b>	Press <b>[M]</b> again
Select a language in bilingual programmes	Press <b>[A/B]</b> Th. selected mode of the A-D-B indicator on the TV lights up	Press <b>[A/B]</b>
Set the sound to music listening position	Press <b>[J]</b>	Press <b>[J]</b> again
Use the space sound (special acoustic effect)	Press <b>[S]</b>	Press <b>[S]</b> again
Request the time	Press <b>[T]</b>	Press <b>[T]</b> again



### How to adjust the picture and sound

Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps.

For picture adjustment

To Adjust:	Press:	Then:	Result: (+ -)
<b>Picture:</b>			
Colour Intensity	<b>[C]</b>		More -> Less
Picture Contrast	<b>[C]</b>	<b>[+]</b>	More -> Less
Brightness	<b>[C]</b>	<b>[+]</b>	Bright -> Dark
Hue (for NTSC only)	<b>[H]</b>	<b>[+]</b>	Reddish -> Greenish
		<b>[+]</b>	Sharp -> Soft
<b>Sound:</b>			
Bass	<b>[B]</b>	<b>[+]</b>	More -> Less
Treble	<b>[T]</b>	<b>[+]</b>	More -> Less
Balance	<b>[B]</b>	<b>[+]</b>	More Right/More Left

To reset the picture and sound to factory set levels press **[+]** **[+]**

On the set:

Press **[+]** **[+]** buttons simultaneously.

### How to select a NICAM broadcast

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, the **[NICAM]** symbol appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the **[NICAM]** symbol appears. To check if the channel you are watching is receiving Nicam, press the on screen display button **[C]** on the full function side of the remote commander.

### How to select the sound of your choice

Nicam programmes can be broadcast in three ways. You may select the sound you want to hear in each of these, by pressing the **[S]** button on the full function side of the remote commander.

Nicam service being broadcast	Action	The sound you hear	Indication on the TV A-D-B
Stereo		Stereo	
	Press <b>[A/B]</b>	Normal	
Mono	Press <b>[A/B]</b> again to return to stereo	Mono	
	Press <b>[A/B]</b>	Normal	
Bilingual	Press <b>[A/B]</b> again to return to Nicam mono	Language A	
	Press <b>[A/B]</b>	Language B	
	Press <b>[A/B]</b>	Normally broadcast language	
	Press <b>[A/B]</b> again to return to language A		




\* Depending on availability of service.

## 1-5. TELETEXT OPERATION

TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander.

With the simple side of the Remote Commander, only the basic operation is possible.







### How to View the Teletext



















Action	Result
<b>1</b> Select the channel which carries the teletext service you wish to see.	The channel changes on the screen.
<b>2</b> Press  .	Teletext will appear. If the teletext signal is not broadcast, then <b>P100</b> is displayed.
<b>3</b> Input three digits for the page number using the number buttons. <b>Note</b> If you make a mistake, type in any three digits, then re-enter the correct page number.	The numbers are entered on the screen. The requested page will appear in a few seconds.
<b>To return to the TV mode.</b> Press  .	
<b>To change the teletext channels</b> First press  to return to the TV mode, then repeat steps 1 to 3.	

#### Note

If the signal of the TV channel is weak, teletext errors may often occur.

### How to Use the Advanced Features of Teletext

How to	Action	Result (On-screen display)
Request the index page.	Press  (INDEX).	The index page appears. 
Request the subtitle page (p888).	Press  .	The subtitle page is displayed (p888).
Access the next or preceding page.	Press  (PAGE +) or  (PAGE -).	The next or preceding page appears. 

How to	Action	Result
Superimpose the teletext display on the TV programme.	Press  once if you are in text mode, or press  twice if in TV mode. To return to the normal teletext display press  again.	The teletext displays are superimposed on the TV programmes. 
Prevent a teletext page from being updated or changed.	Press  (HOLD).	The HOLD symbol (  ) appears on the screen and the chosen sub-page is held until you cancel.
Enlarge the teletext display.	Press  once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.	The upper half is enlarged. 
Reveal concealed information (e.g. answers to a quiz).	Press  (REVEAL). Press again to conceal the information.	The information is revealed. 
Watch the TV programme while waiting for a requested page to be displayed.	1. Request a new page. 2. Press  (TEXT CL).	The numbers are entered. The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen.
	3. When the requested page has been captured, the page number remains and the other data disappears.	
	4. Press  to view this page.	The requested page is displayed.
Have a requested page displayed at a pre-determined time.	1. Request a desired page. 2. Press  (TP ON).	The requested page is displayed. "T*****" appears at the bottom of the screen.
	3. Enter the time you want to have the page displayed with four digits using the number buttons. (For example, enter 0730 for 7:30 AM)	The time is entered on the screen.
	4. Press  (TEXT CL) to watch the TV programme until the requested time.	At the requested time, the page number will be displayed at the top of the screen, to view this page, press  .
	To cancel the request Display the teletext page, then press  (TP OFF).	The request is cancelled. To resume TV mode press  .

Some of the features may not be available depending on the Teletext service.

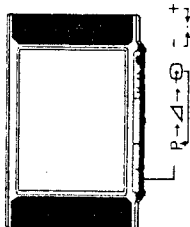
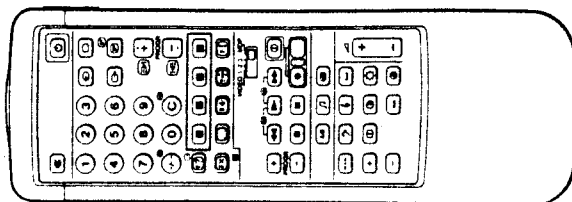
# 1-6. OPTIONAL CONNECTIONS/OPERATIONS

## How to use the FASTEXT Feature

FASTEXT feature allows you to access pages quickly with one key operation. When a FASTEXT page is broadcast, a colour coded menu appears at the bottom of the screen. Each coloured prompt corresponds to the coloured buttons on either side of your Remote Commander.

Operation	
Action	Result
Press one of the coloured buttons which corresponds to the coloured prompt on the teletext.	The selected teletext page appears.

**Note**  
Correct FASTEXT operation depends on the necessary signals sent from the TV station.



## How to view the video input picture

You can view the picture of video equipment connected to the input terminals by selecting the input mode.

Operation	
Action	Result
Press $\odot$ repeatedly to select the desired input.	Symbol for the selected input appears. (See the table below.)
To return to the TV mode, press the $\square$ button.	

### Input modes

Symbol	Result
$\odot 1$	Audio/video input through the $\odot 1$ connector.
$\odot 2$	RGB input through the $\odot 2$ connector.
$\odot 3$	Audio/video input through the $\odot 2/\odot 3$ connector.
$\odot 4$	S video input (from a VTR equipped with an S video output) through the $\odot 2/\odot 3$ connector.
$\odot 5$	Audio/video input through $\odot 4$ and $\odot 5$ jacks on the front.

You can also select the input mode using the  $\odot$  button on the TV. In this case, first select  $\odot$ , and then press +/- buttons to select the input.

## How to select the Output

The  $\odot 2/\odot 3$  connector outputs four kinds of audio/video signals. You have to select one of them as follows.

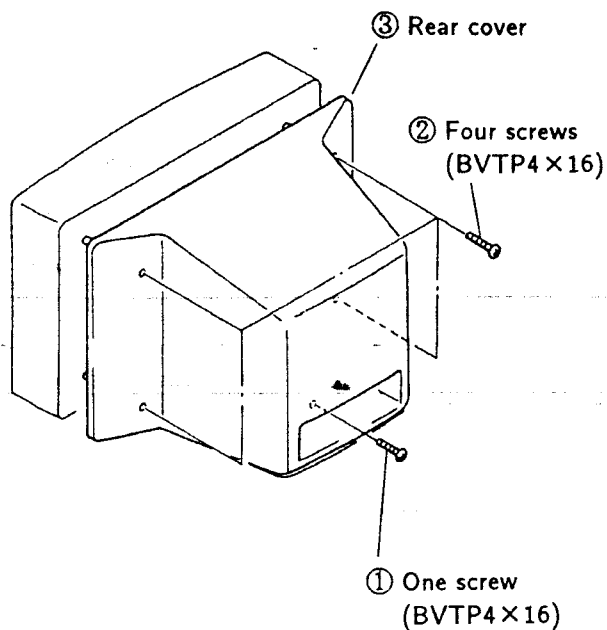
Operation	
Action	Result
Press $\odot$ repeatedly to select the desired input.	Symbol for the selected output appears. (See the table below.)

### Output modes

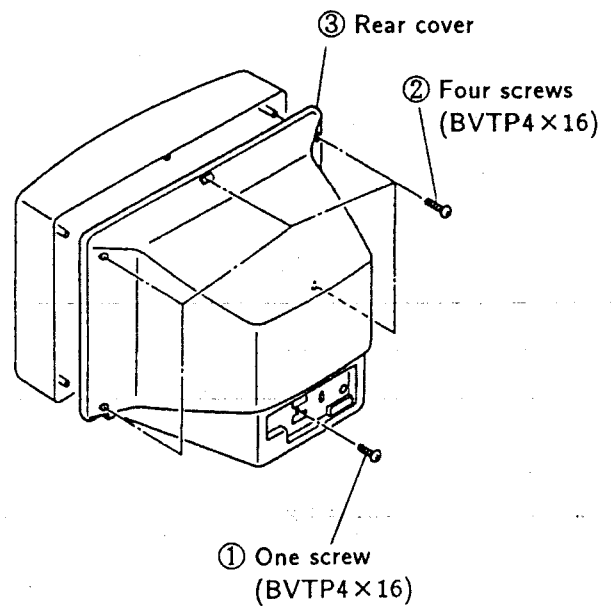
Symbol	Output from
$\odot 1$	The audio/video signal from the $\odot 1$ connector.
$\odot 2$	The audio/video signal from the $\odot 2/\odot 3$ connector.
$\odot 3$	The audio/video signal from the $\odot 4$ connectors.
$\odot 4$	The audio/video signal from the TV aerial terminal.

## SECTION 2 DISASSEMBLY

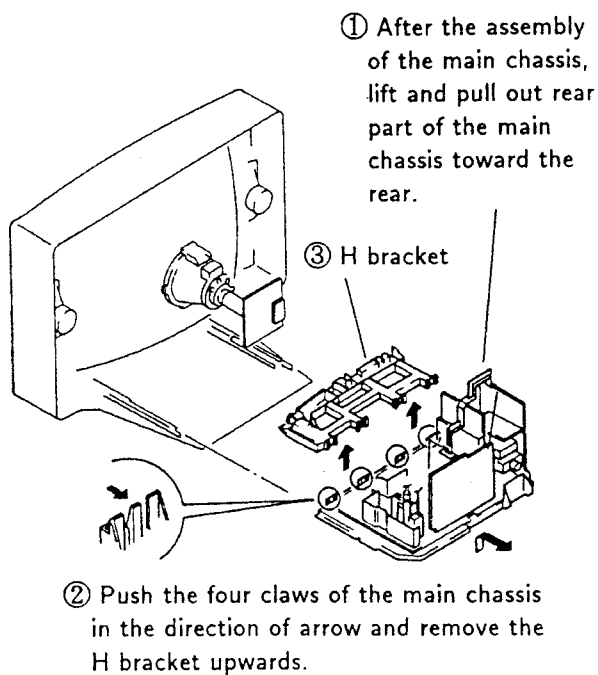
### 2-1-1. REAR COVER REMOVAL (21 inch)



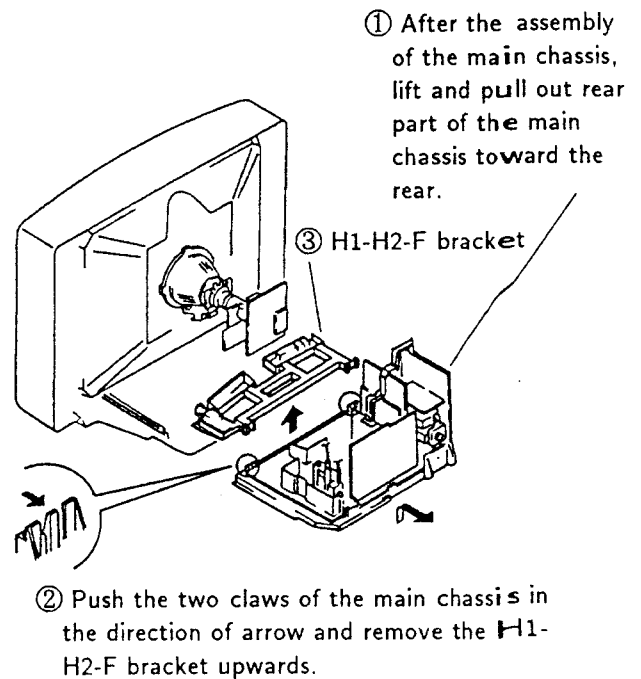
### 2-1-2. REAR COVER REMOVAL (25inch, 29inch)



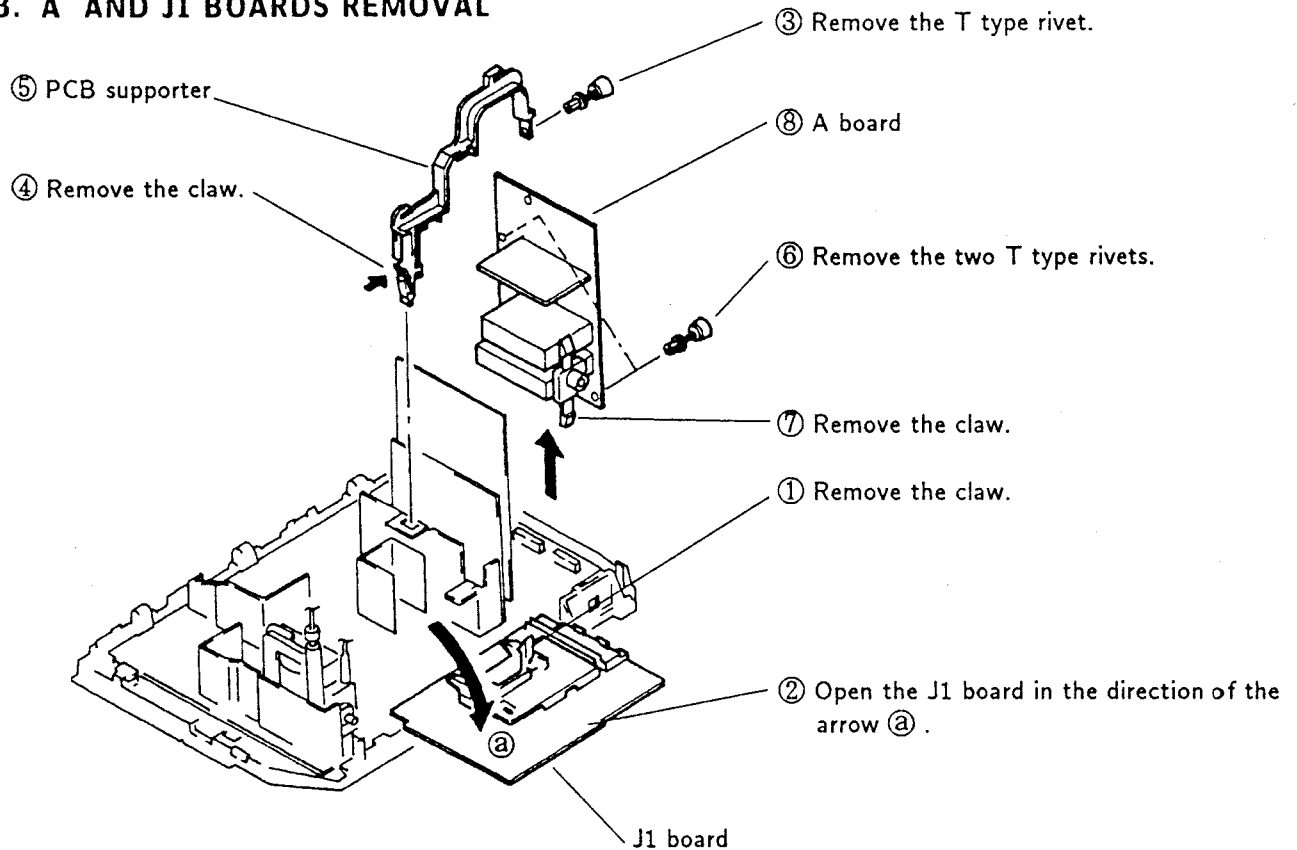
### 2-2-1. CHASSIS ASSEMBLY REMOVAL (21inch)



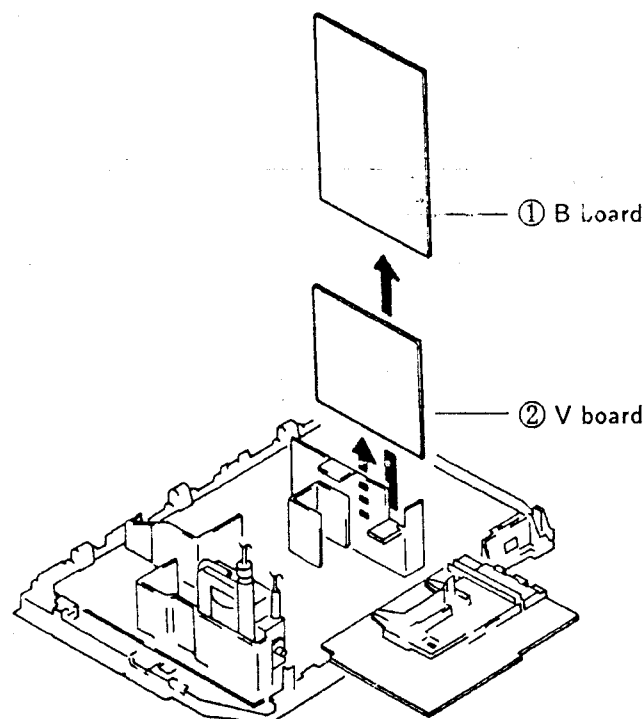
### 2-2-2. CHASSIS ASSEMBLY REMOVAL (25inch, 29inch)



### 2-3. A AND J1 BOARDS REMOVAL



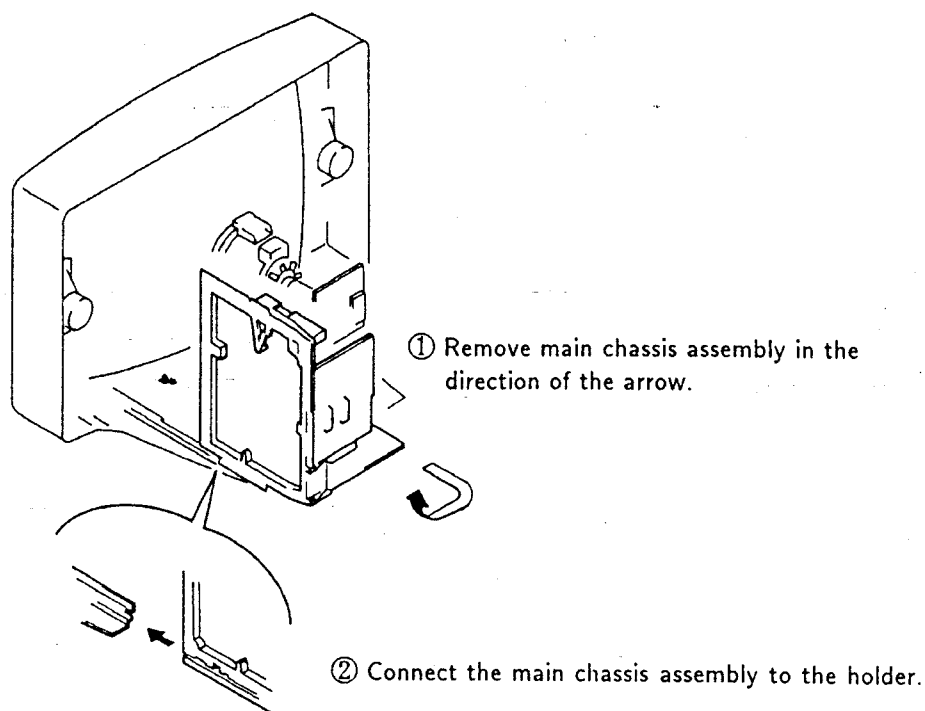
### 2-4. B AND V BOARDS REMOVAL



Note: 10 pin extension cable (S-0945-001-0)

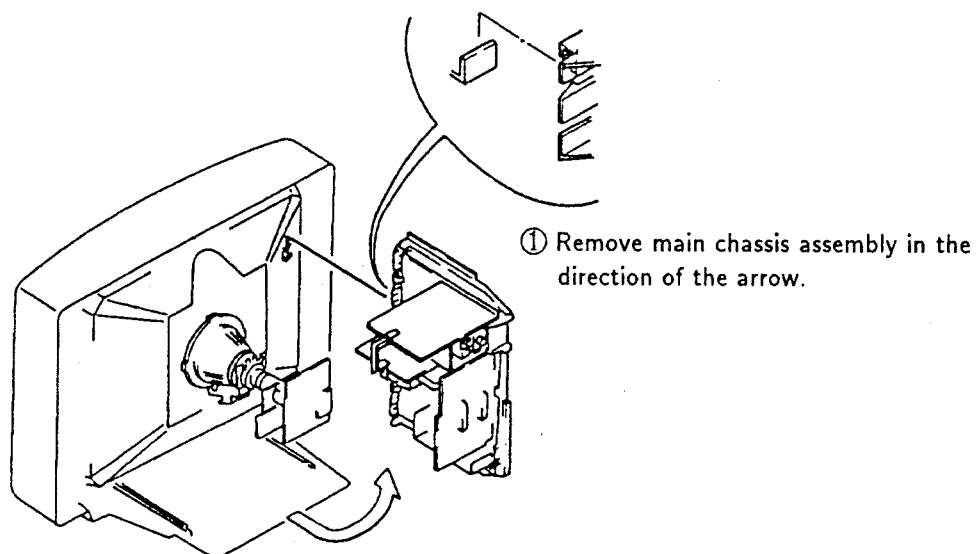
### 2-5-1. SERVICE POSITION (21inch)

- \* Remove the bracket from the main chassis assembly and then perform the following servicing.  
(Refer to 2-2-1. CHASSIS ASSEMBLY REMOVAL.)

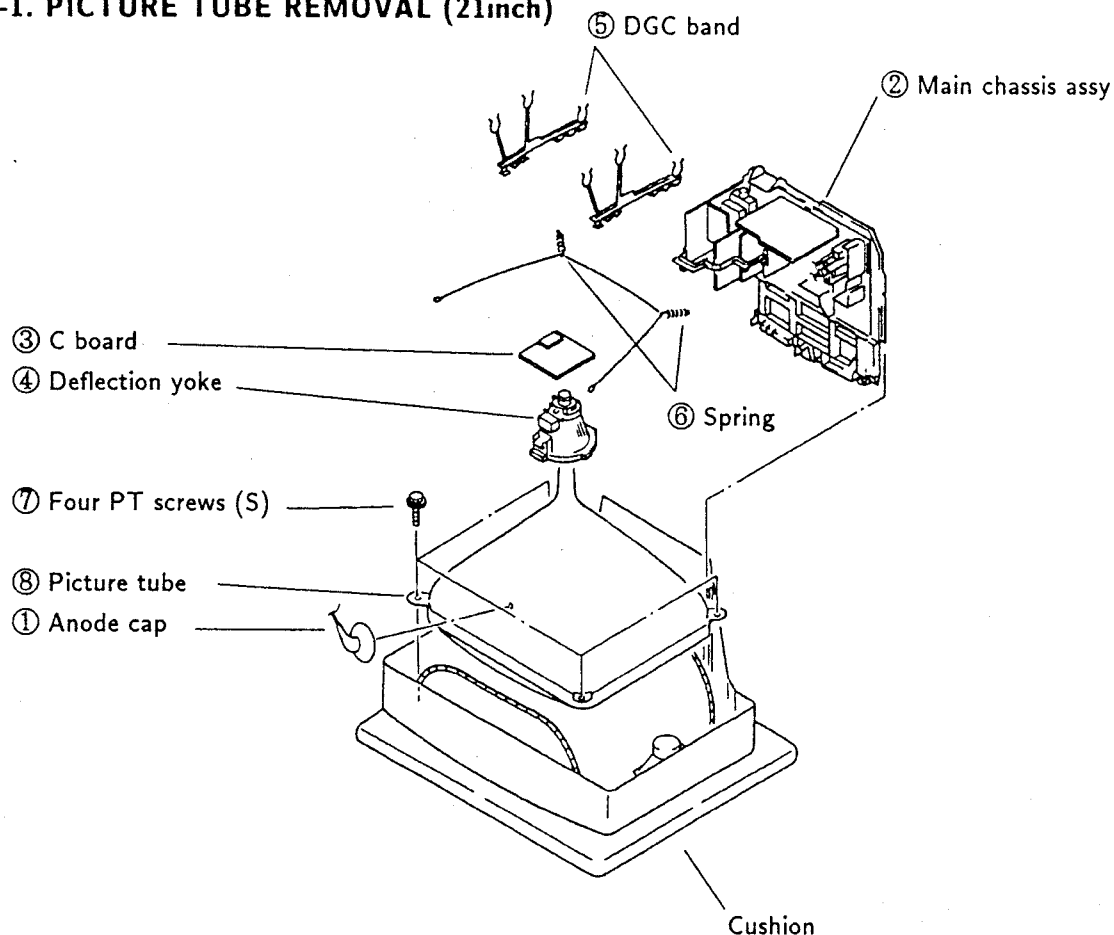


### 2-5-2. SERVICE POSITION (25inch, 29inch)

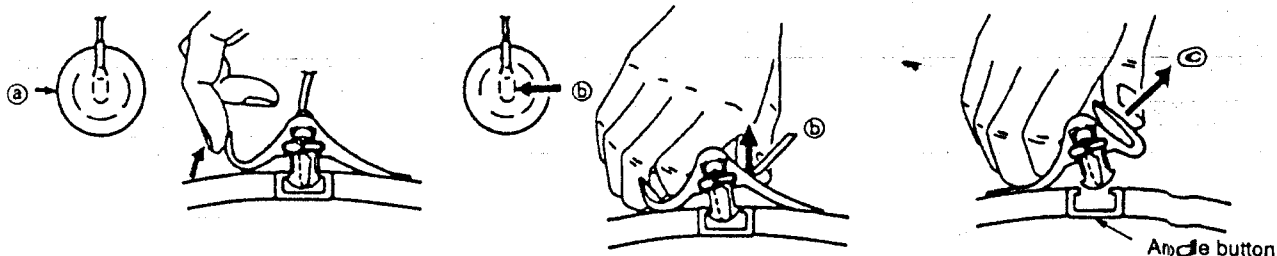
- \* Remove the connector bracket from the main chassis assembly and then perform the following servicing.  
(Refer to 2-2-2. CHASSIS ASSEMBLY REMOVAL.)



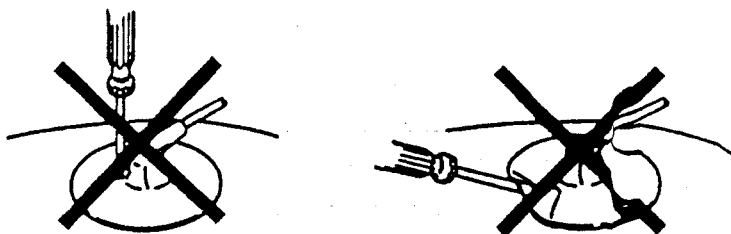


**2-6-1. PICTURE TUBE REMOVAL (21inch)****• REMOVAL OF ANODE-CAP**

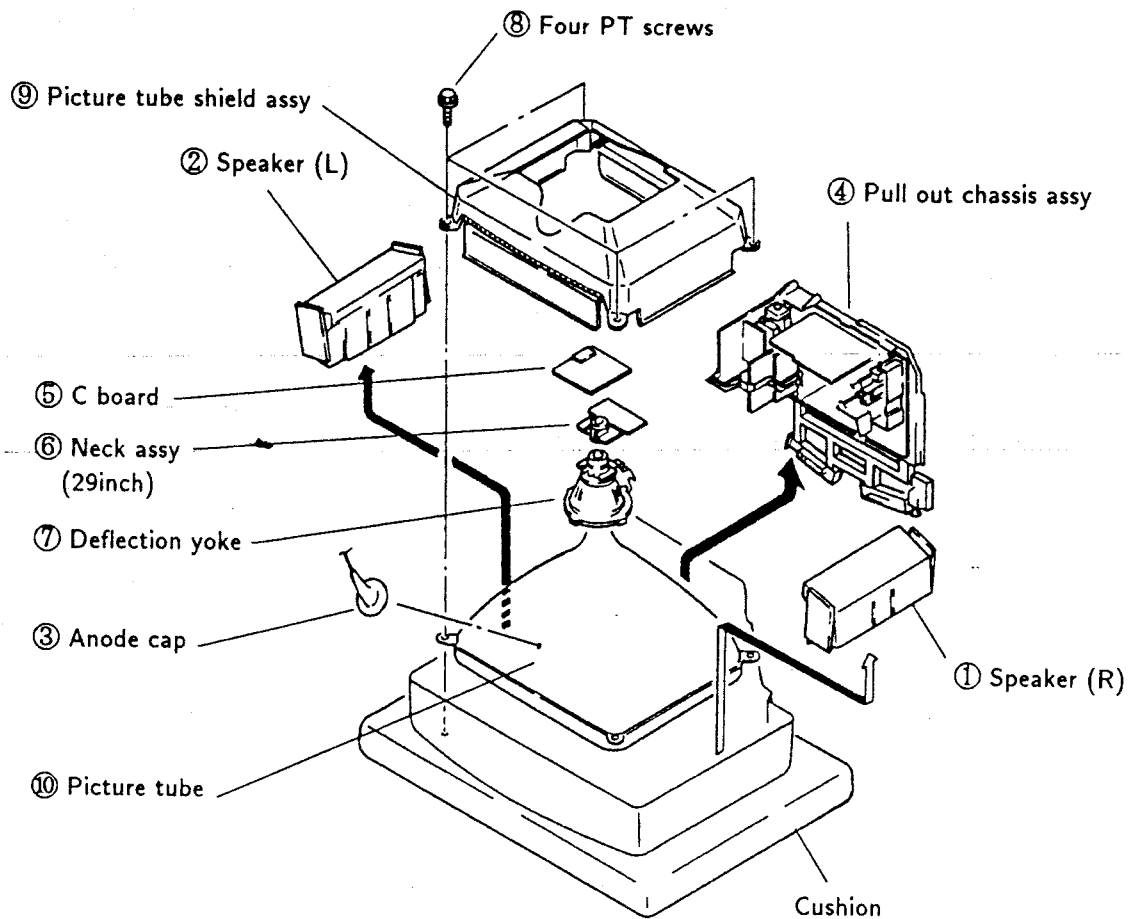
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

**• REMOVING PROCEDURES****• HOW TO HANDLE AN ANODE-CAP**

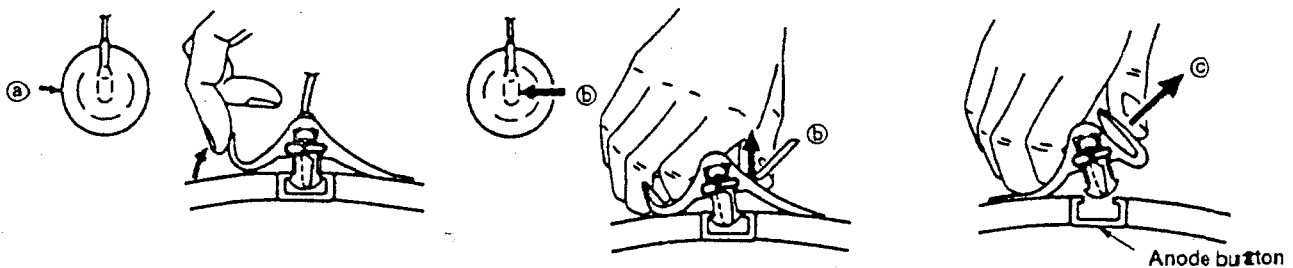
- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardy not to hurt inside of anode-caps!  
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardy!  
The shatter-hook terminal will stick out or hurt the rubber.



## 2-6-2. PICTURE TUBE REMOVAL (25inch, 29inch)



### • REMOVAL OF ANODE-CAP • REMOVING PROCEDURES



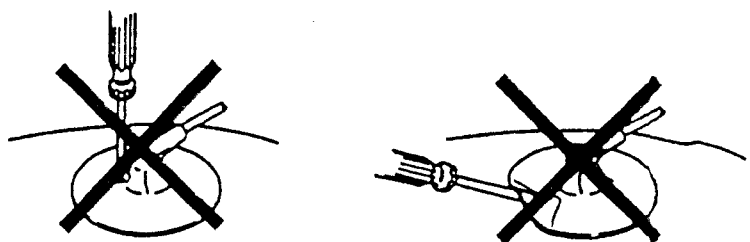
① Turn up one side of the rubber cap in the direction indicated by the arrow ②.

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ③.

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ④.

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!  
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!  
The shatter-hook terminal will stick out or hurt the rubber.



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted :

● CONTRAST control..... 80%(or Normal by commander)  
 ● BRIGHTNESS control..... 50%

Perform the adjustments in order as follows:

#### Preparation: (21 inch, 25 inch)

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

#### 3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.
 

CONTRAST    }  
 BRIGHTNESS } normal
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly.  
(Fig.3-1 - 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
5. Switch over the raster signal to blue and blue and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

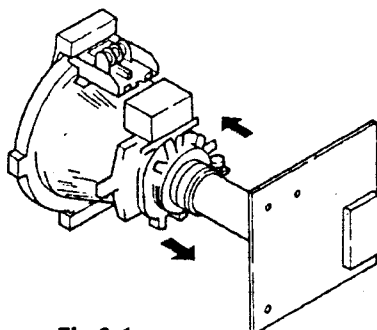


Fig. 3-1

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

**Note:** Test Equipment Required:

1. Color bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

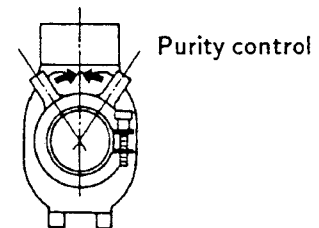


Fig.3-2

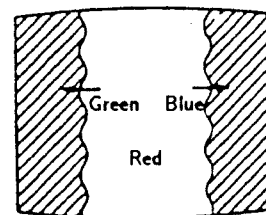


Fig.3-3

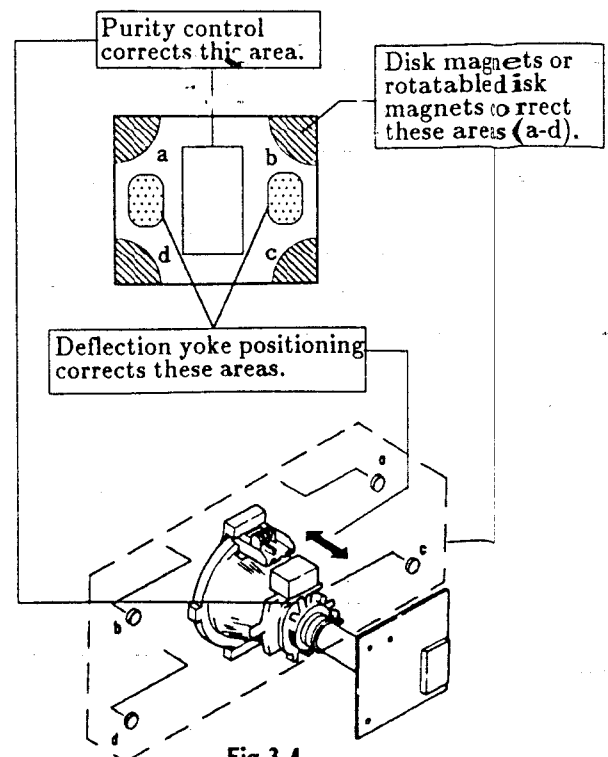


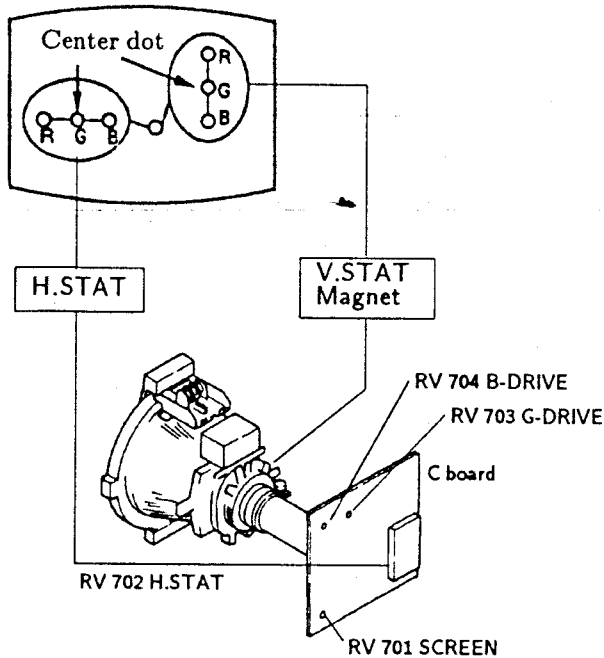
Fig.3-4

### 3-2. CONVERGENCE

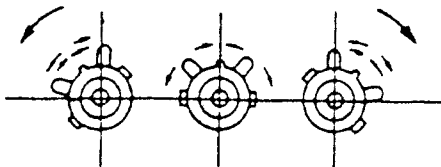
#### Preparation:

- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

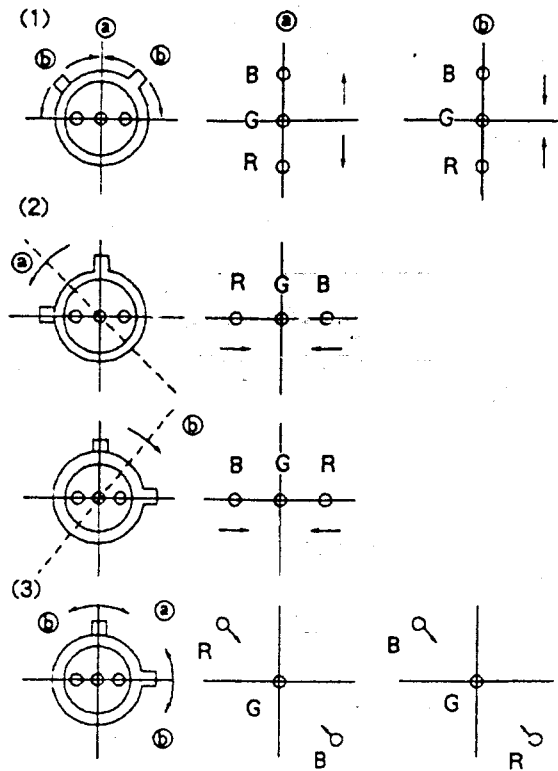
#### (1) Horizontal and Vertical Static Convergence



1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
  2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
  3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow ② and ③, red, green and blue dots move as shown below.



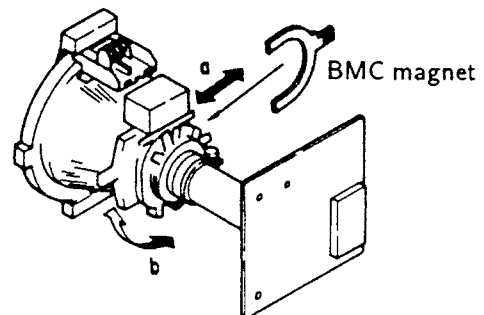
(KV-21 inch only)

If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

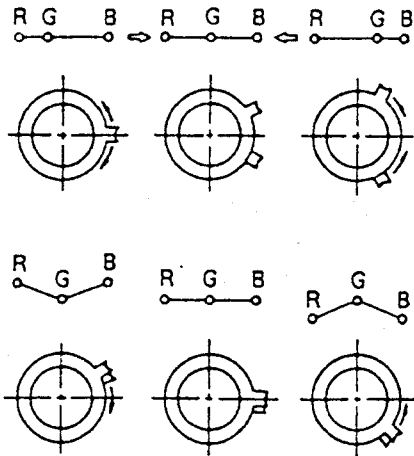
Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

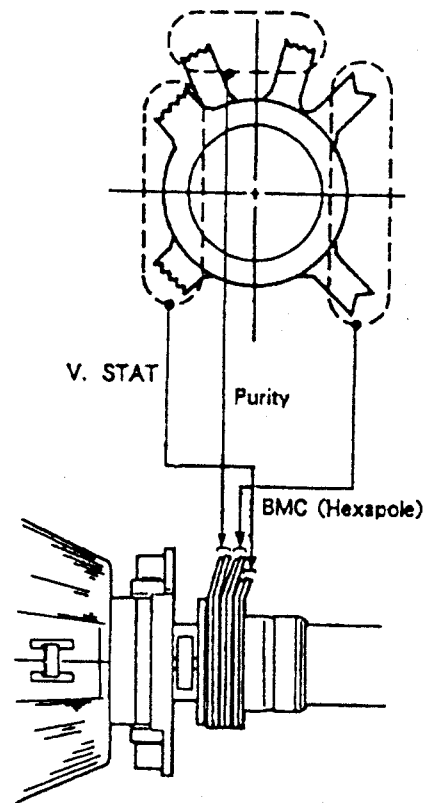


(KV-25 inch only)

- Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking. Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



## (2) Dynamic Convergence Adjustment

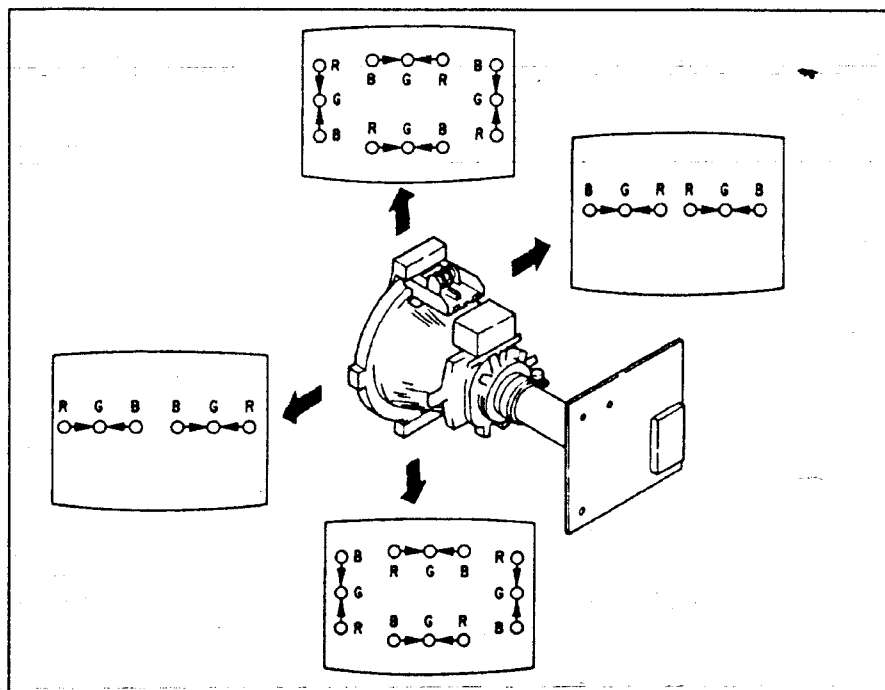
**Preparation:**

- Before starting perform Horizontal and Vertical static convergence Adjustment.

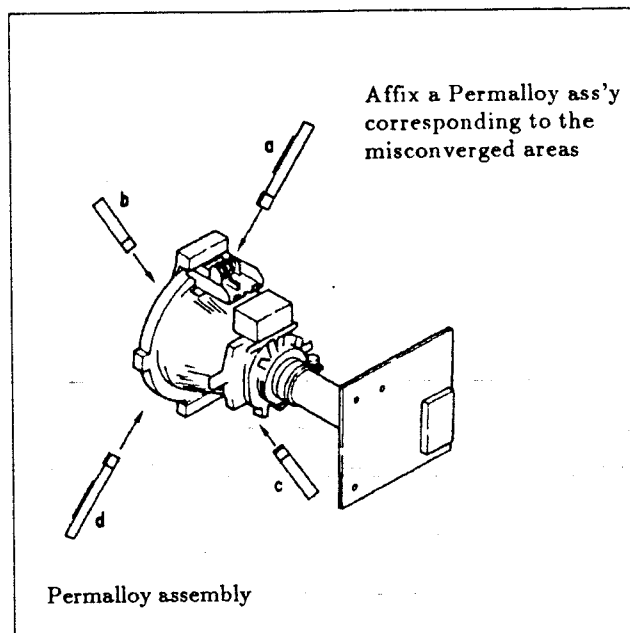
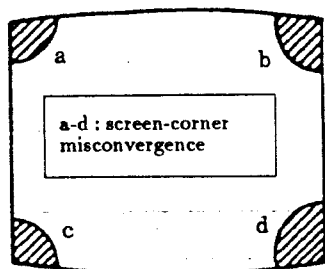
- Slightly loosen deflection yoke screw.
- Remove deflection yoke spacers.

3. Move the deflection yoke for best convergence as shown below.

- Tighten the deflection yoke screw.
- Install the deflection yoke spacers.

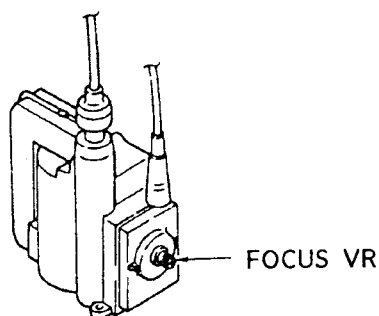


### (3) Screen-corner Convergence

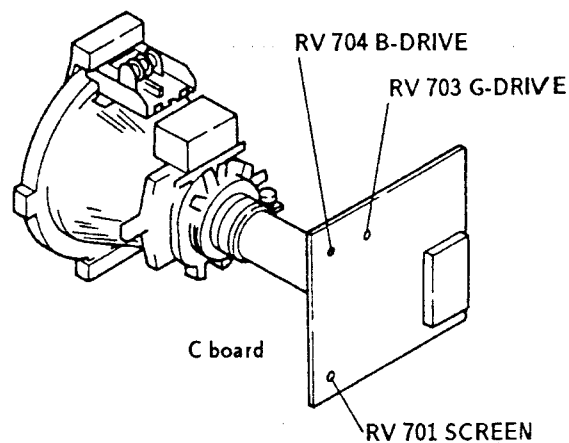


### 3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.



### 3-4. SCREEN (G 2) and WHITE BALANCE



#### Screen (G 2) Setting

1. Input dot signal from the pattern generator.
2. Set the picture BRIGHTNESS control to minimum level.
3. Apply 170 V DC to the cathodes of R,G and B from an external power source.
4. While watching the picture, adjust the G 2 volume (RV701) immediately before fly-back line disappears.

#### White Balance Adjustment

1. Input all-white signal from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

### Preparations: (29 inch)

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

### 3-5. BEAM LANDING

1. Input the white signal with the pattern generator.  
Contrast } normal  
Brightness }
2. Position neck ass'y as shown in Fig 3-6.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.  
(See Figures 3-5 through 3-7.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-5.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.  
(See Figure 3-8.)

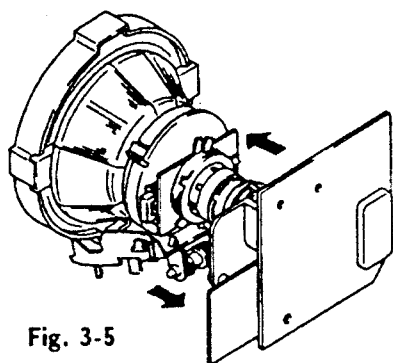


Fig. 3-5

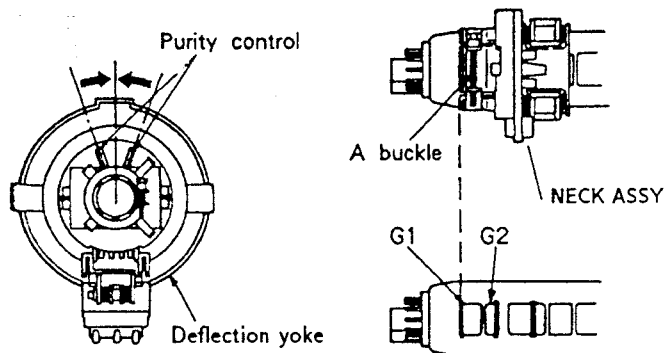


Fig. 3-6

Fig. 3-7

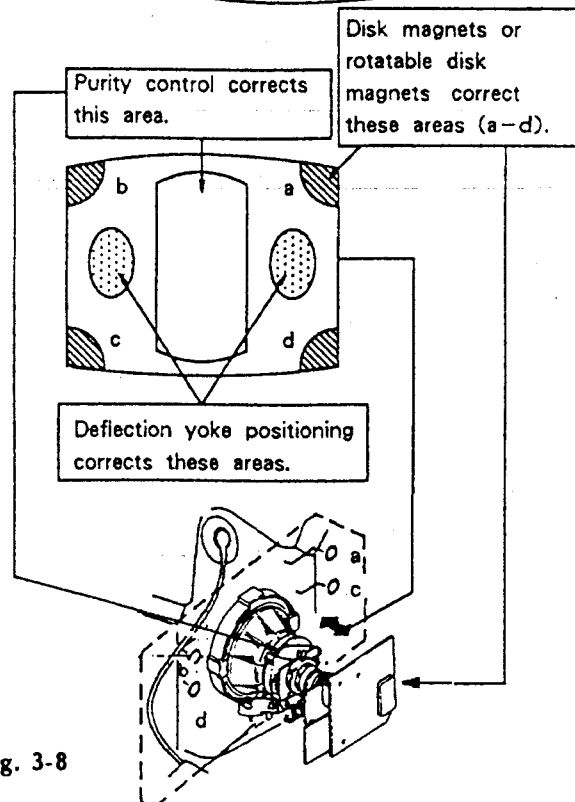
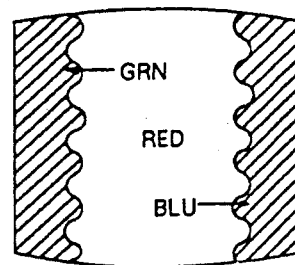
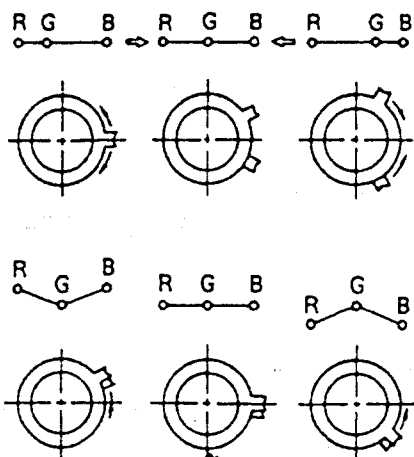


Fig. 3-8

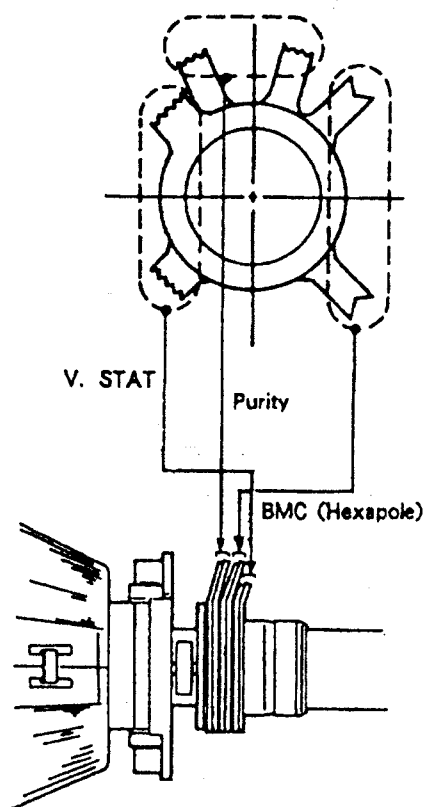


● Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



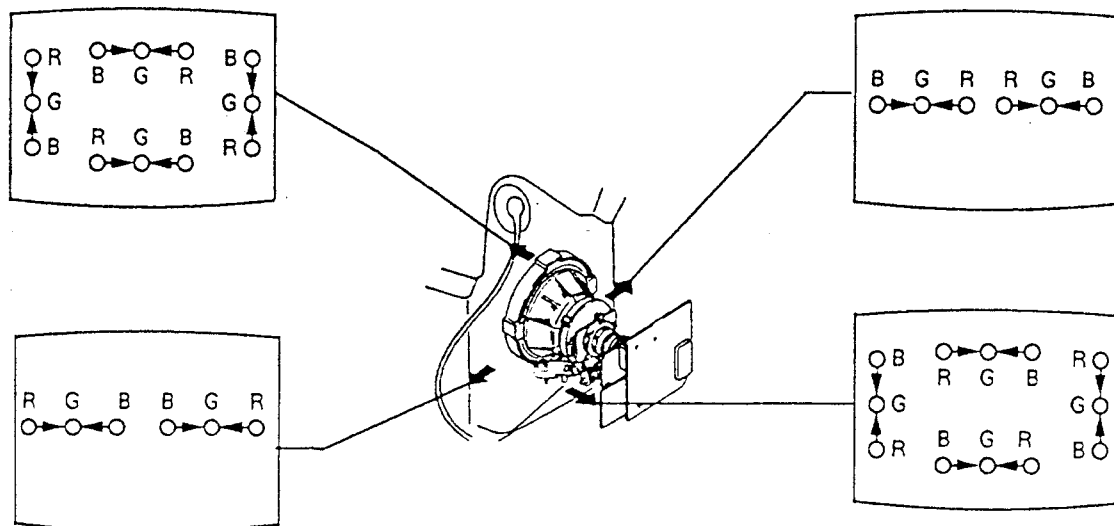
(2) Dynamic convergence adjustment

Preparations :

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.

3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.

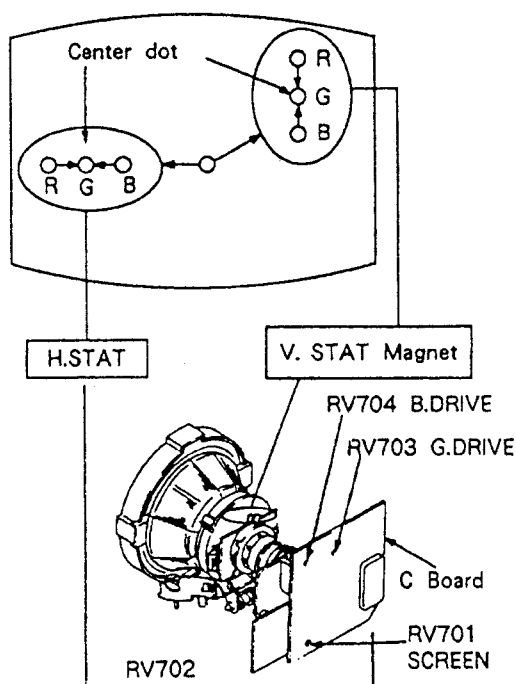


### 3-6. CONVERGENCE

#### Preparations :

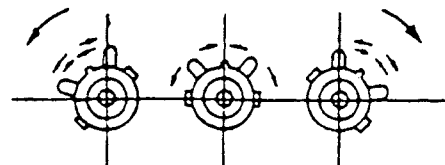
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

#### (1) Horizontal and vertical static convergence

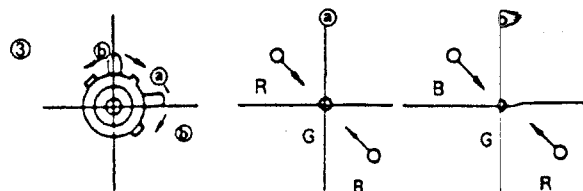
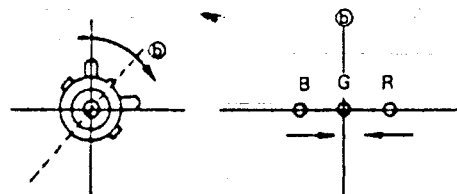
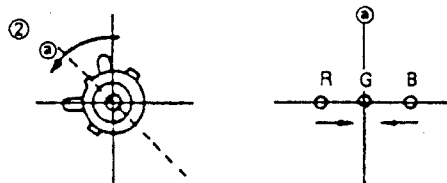
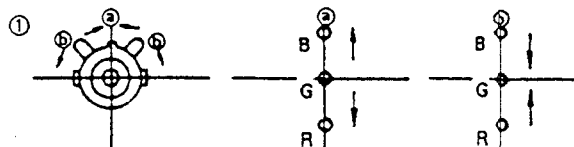


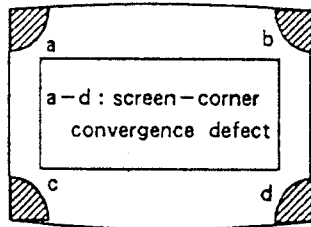
1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.  
(In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

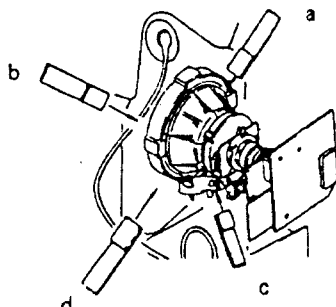


4. If the V.STAT magnet is moved in the direction of the ② and ③ arrows, the red, green, and blue points move as shown below.



**(3) Screen corner convergence**

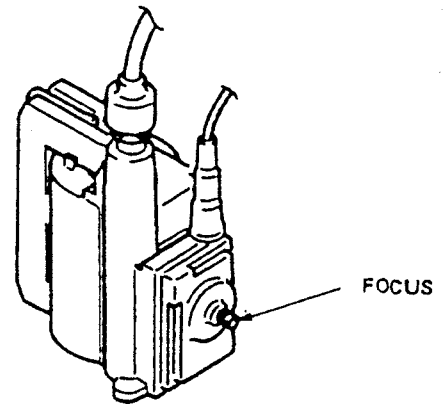
Install the permalloy assembly for the section with faulty.



Permalloy

**3-7. FOCUS**

Adjust the focus to optimize the screen.

**3-8. WHITE BALANCE****[ Screen G2 setting ]**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

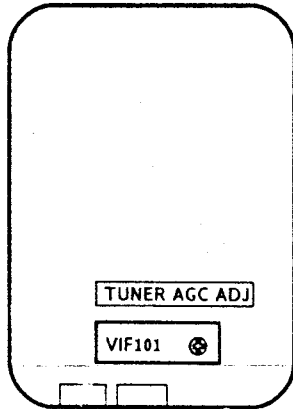
**[ White balance adjustment ]**

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

## SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. A BOARD ADJUSTMENTS

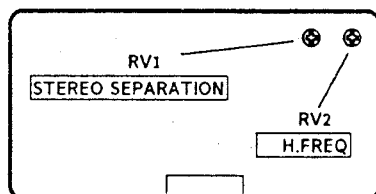


A BOARD (COMPONENT SIDE)

#### TUNER AGC ADJUSTMENT (AGC VR)

1. Align with an appropriate signal between stations.
2. Adjust AGC VR so that snow noise and cross modulation just disappear from the picture.

### IFG5.5S SIF



IFG5.5S SIF -component side-

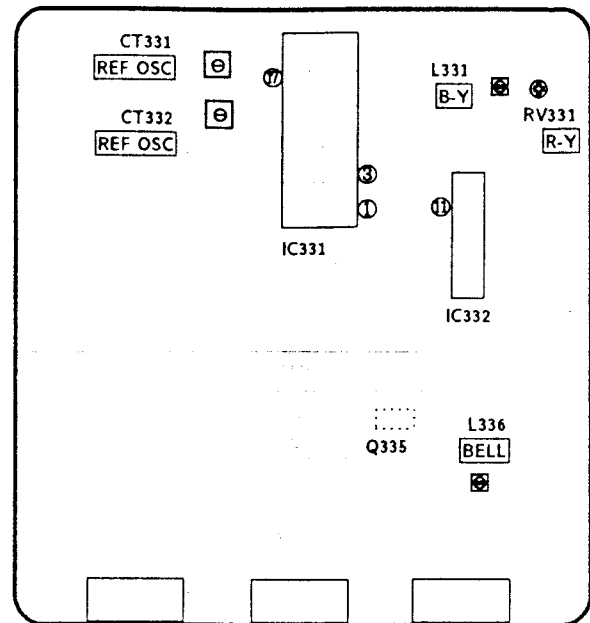
#### STEREO SEPARATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin ⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minmum.

#### H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper between pin ⑫ IC4 and GND.
2. Connect a frequency counter to pin ④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ)  $15.625 \pm 50\text{Hz}$ .
4. After adjustment, remove the jumper.

### 4-2. B BOARD ADJUSTMENTS



B BOARD (COMPONENT SIDE)

#### REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

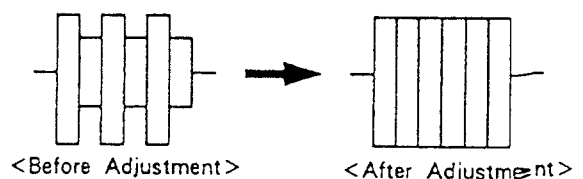
1. Input a PAL color bar signal.
2. Ground pin ⑦ of the IC331.
3. Adjust CT332 to obtain synchronization.

#### REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

1. Input an NTSC358 color bar signal.
2. Ground pin ⑦ of IC331.
3. Adjust the CT331 to obtain synchronization.
4. Remove the jumper grounding pin ⑦ of IC331.

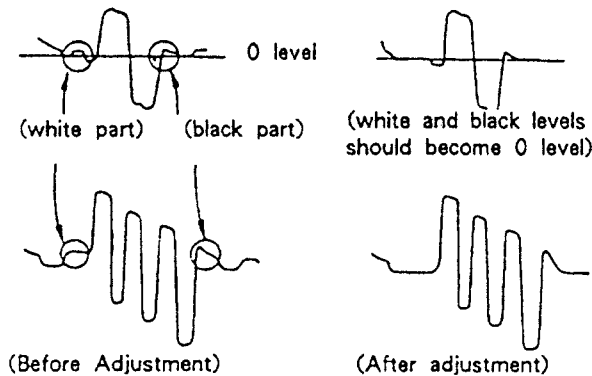
#### BELL FILTER ADJUSTMENT (L336)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q335.
3. Adjust L336 so that the waveform is flat.

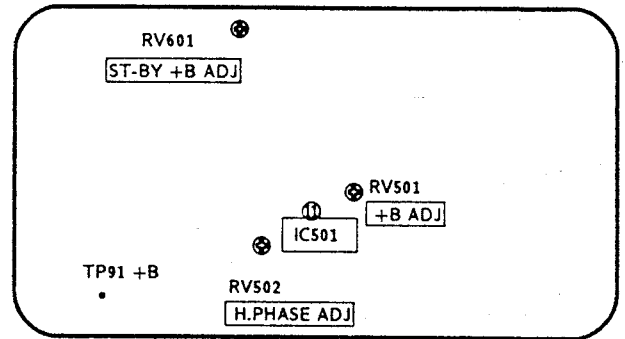


**DISCRIMINATION ADJUSTMENTS  
(RV331 and L331)**

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC331.
3. Adjust RV331 until the white and black sections of the waveform at pin ① are at the 0 level.  
Connect the oscilloscope to pin ③ of IC331.
4. Adjust L331 until the white and black sections of the waveform at pin ③ are at the 0 level.



**4-3. D BOARD ADJUSTMENTS**



D BOARD (COMPONENT SIDE)

**+B ADJUSTMENT (RV501)**

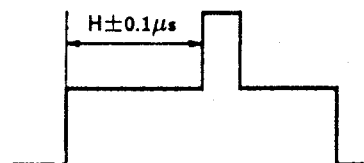
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain  $135 \pm 0.2V$ .

**ST-BY +B ADJUSTMENT (RV601)**

1. Put the system into  $\text{⏻}$  standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain  $135 \pm 3V$ .
4. Take the system out of  $\text{⏻}$  standby mode (remote commander).

**H.PHASE ADJUSTMENT (RV502)**

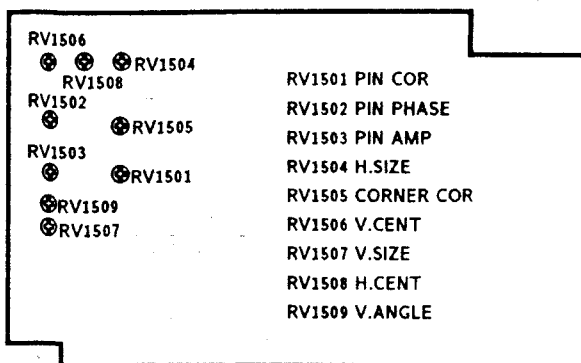
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to  $H \pm 0.1\mu s$ .



Standard of H. PHASE

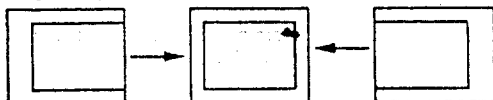
Model Size	H
21 "	$5.6\mu s$
25 "	$5.1\mu s$
29 "	$5.5\mu s$

#### 4-4. J1 BOARD ADJUSTMENTS

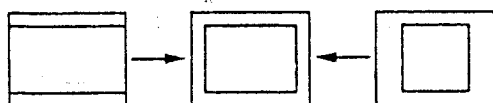


J1 BOARD (COMPONENT SIDE)

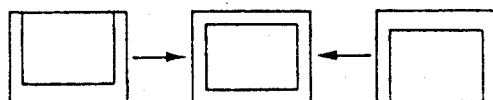
RV1508  
H. CENT (HORIZONTAL CENTER)



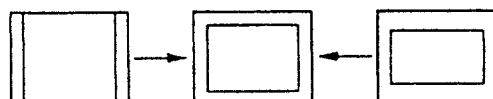
RV1504  
H. SIZE (HORIZONTAL SIZE)



RV1506  
V. CENT (VERTICAL CENTER)



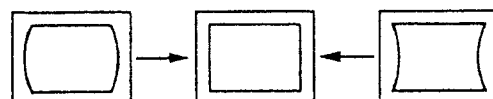
RV1507  
V. SIZE (VERTICAL SIZE)



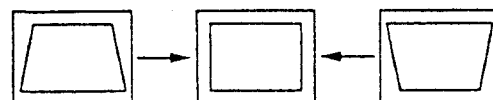
RV1509  
V. ANGLE (VERTICAL ANGLE)



RV1503  
PIN AMP (PINCUSHION AMPLIFIER)



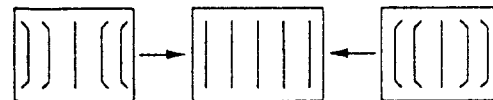
RV1502  
PIN PHASE (PINCUSHION PHASE)



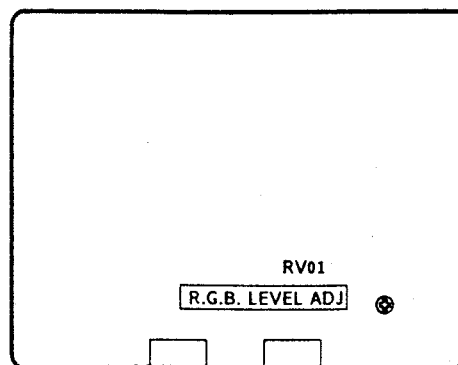
RV1501  
PIN. COR (PINCUSHION CORRECT)



RV1505  
CORNER COR (CORNER CORRECT)



#### 4-5. V BOARD ADJUSTMENT



V BOARD (COMPONENT SIDE)

##### RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

#### 4-6. SECONDARY ADJUSTMENTS

##### SUB BRIGHTNESS ADJUSTMENT

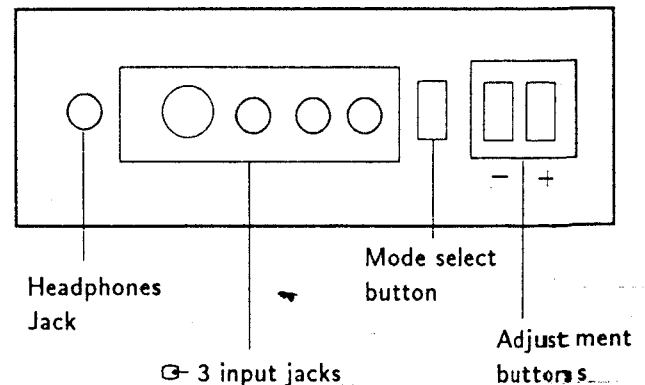
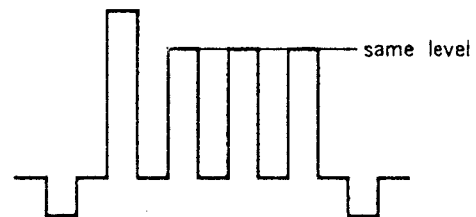
1. Set the system to receive a test pattern.
2. Press  $\rightarrow \cdot \leftarrow$  on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the  $\bullet$  contrast setting.
6. Adjust the  $\odot$  brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the  $\diamond$  (store) button of the remote commander. (SUB mode is released)

If there is no test color pattern

1. Set the system to receive a color pattern.
  2. Press  $\rightarrow \cdot \leftarrow$  on the remote commander to put the system into normal mode.
- Set the  $\odot$  color to its normal state.
- 3-5. Steps are the same as above.
6. Since 20 IRE is nearly blue, adjust the  $\odot$  brightness control so that the blue barely glows.
  7. Same as step 7 above.
  8. Press  $\rightarrow \cdot \leftarrow$  on the remote commander to put the system into normal mode.

##### SUB COLOR ADJUSTMENT

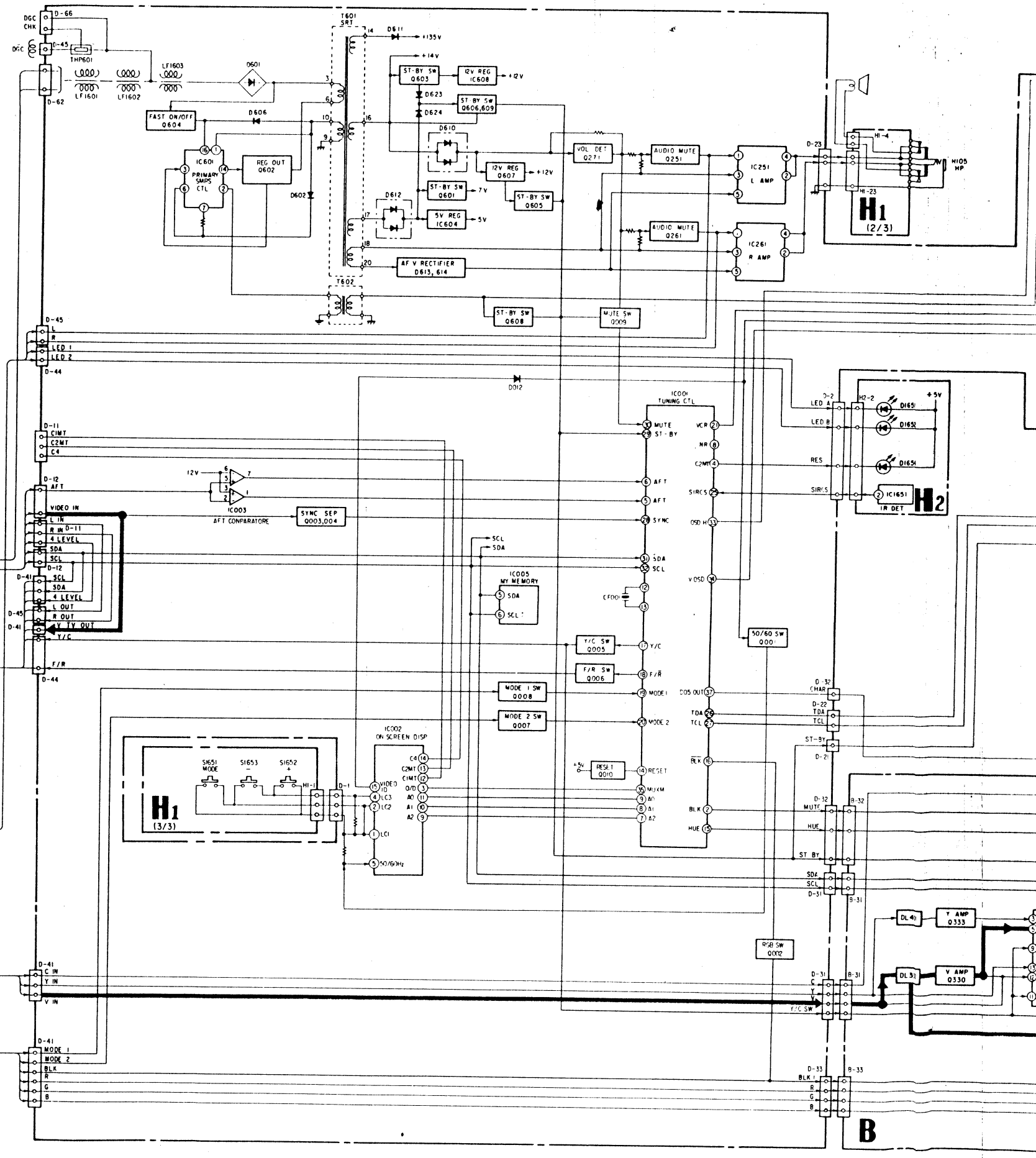
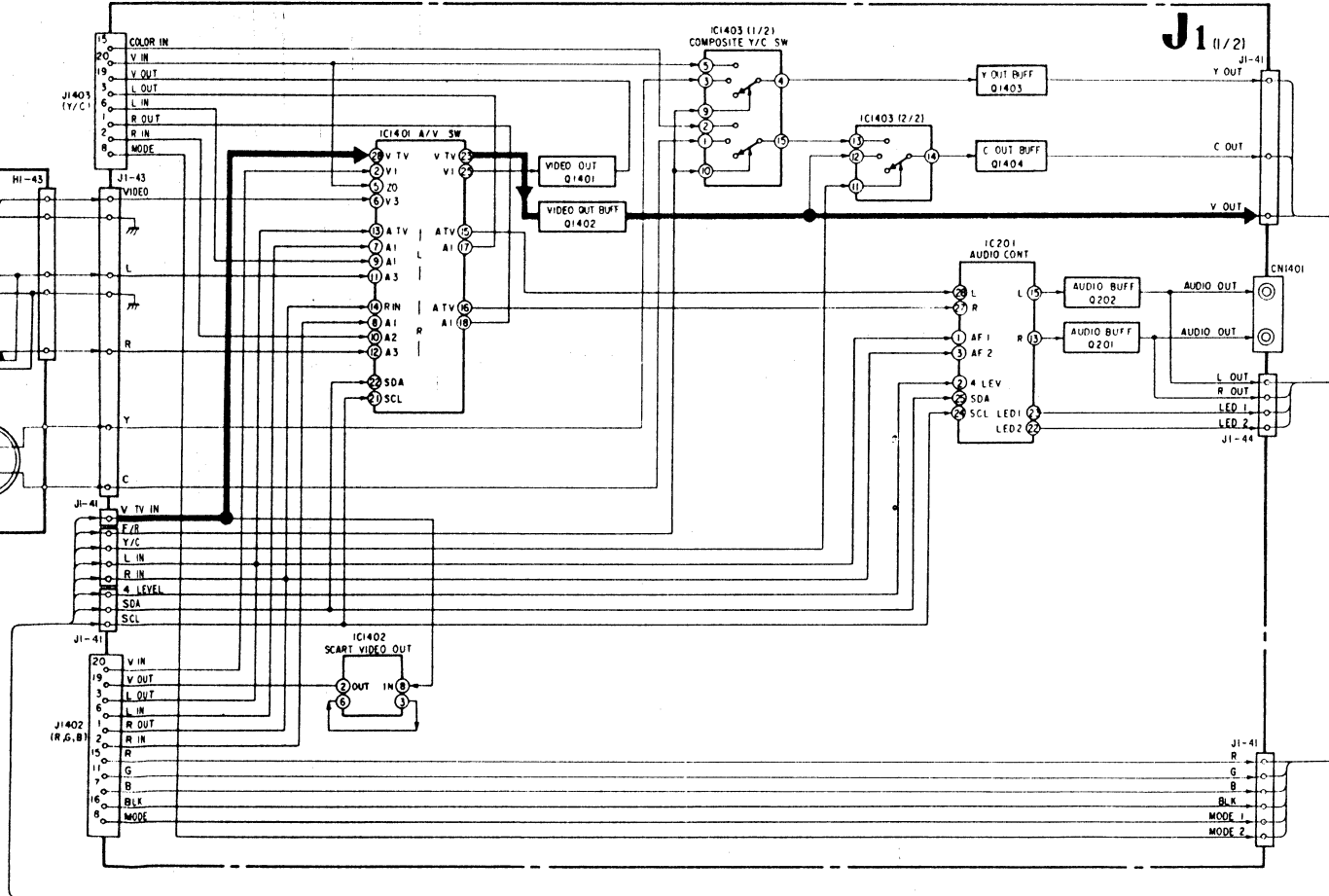
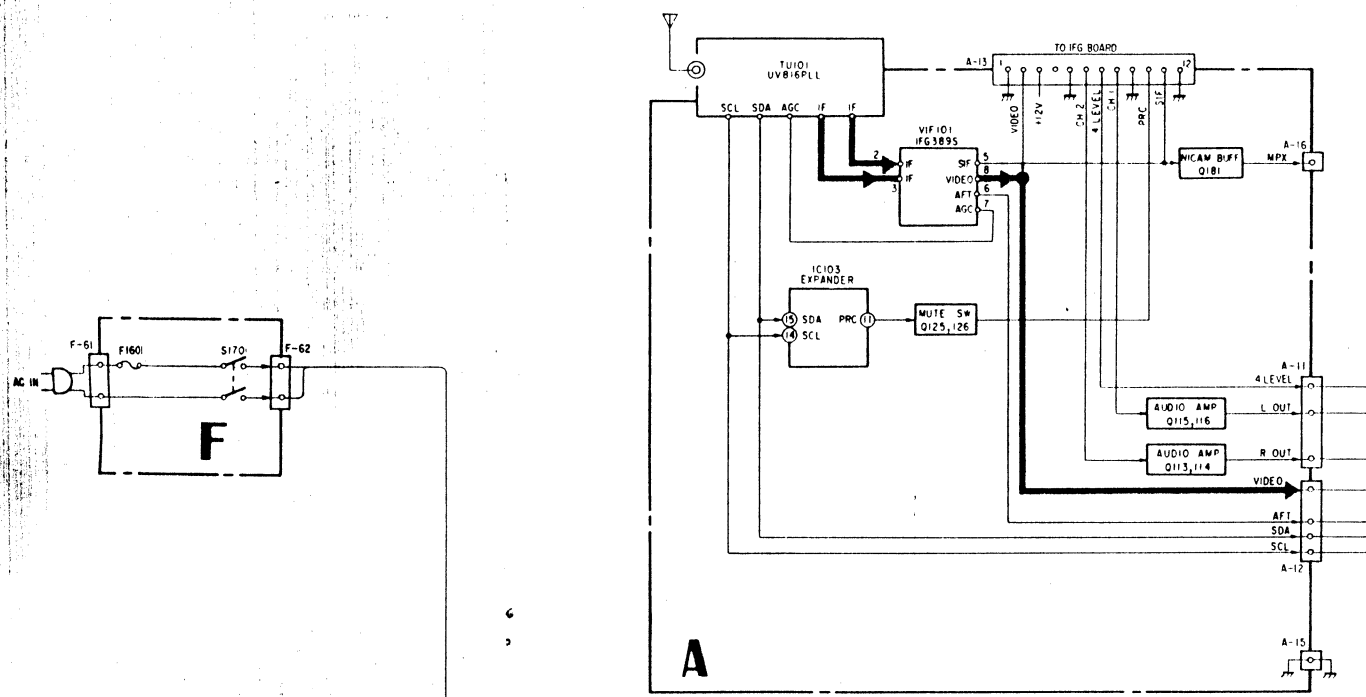
1. Set the system to receive color bars.
2. Press  $\rightarrow \cdot \leftarrow$  on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the  $\diamond$  (store) button of the remote commander. (SUB mode is released)

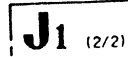


# MEMO

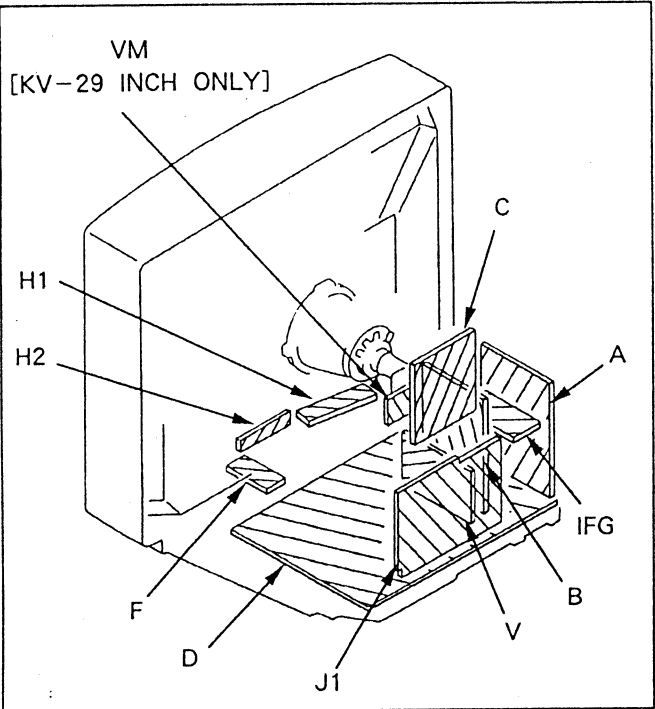


**BLOCK DIAGRAM**





5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in  $\mu F$  unless otherwise noted.  
pF:  $\mu F$  50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm  
Rating electrical power :  $\frac{1}{4}W$

- Chip resistor is in  $1/10W$ .
- All resistors are in ohms.  
 $k\Omega = 1000\Omega$ ,  $M\Omega = 1000K\Omega$
- : nonflammable resistor.
- : fusible resistor.
- $\Delta$  : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a  $10M\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : signal path.(RF)

Reference information

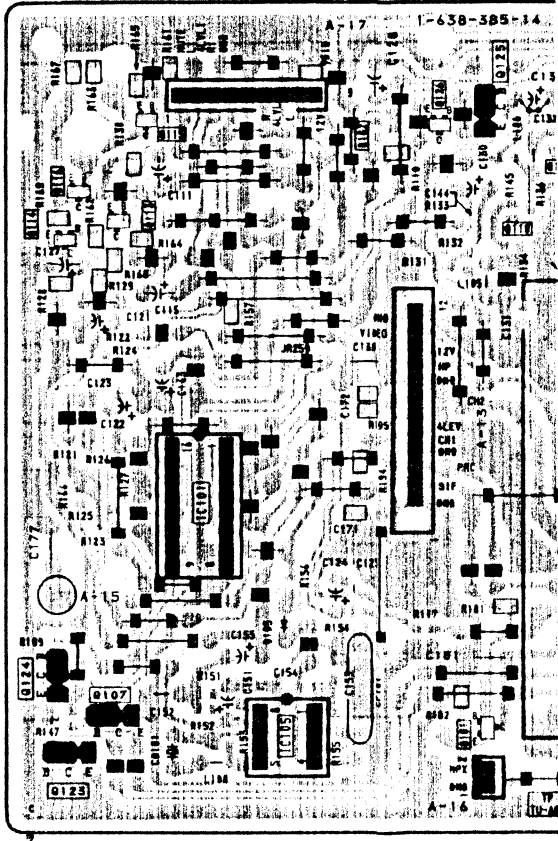
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

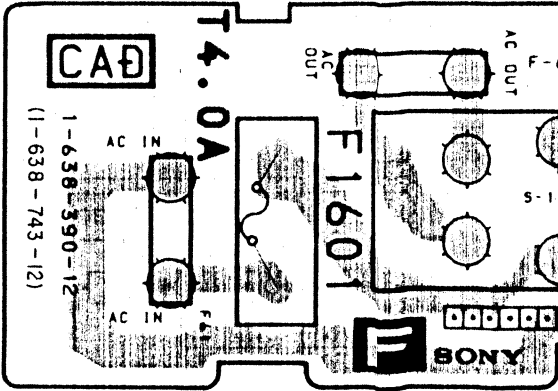
A [TUNER, SIF, VIF]

F AC IN, POWER SW

— A Board —

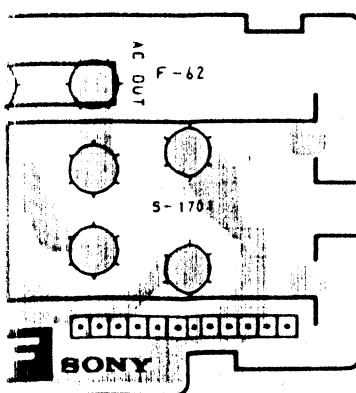
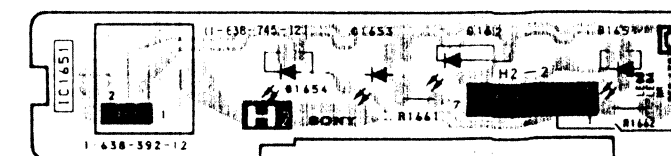


— F Board —



[VM AMP]

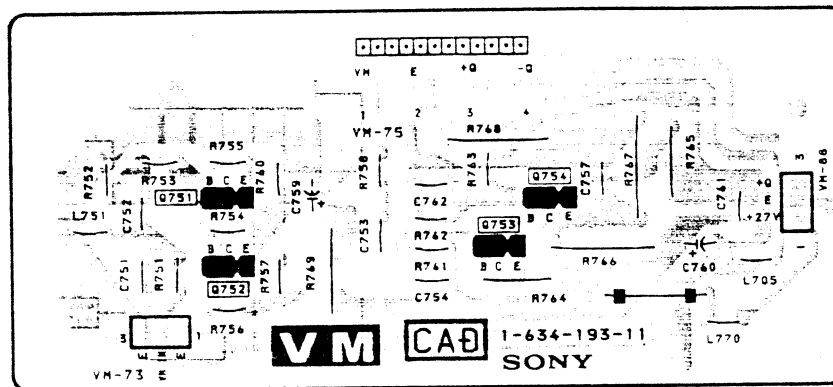
—VM Board— (29 INCH ONLY)



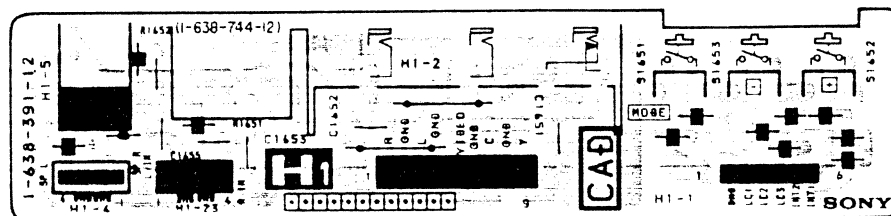
V-C2161D/C2561D/C2961D  
RM-816

1D KV-C2161D/C2561D/C2961D  
316 RM-816

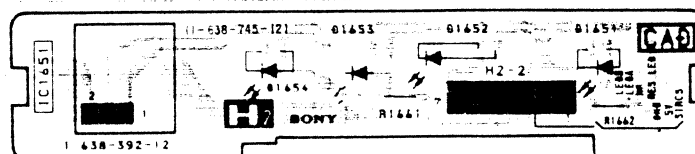
—VM Board— (29 INCH ONLY)

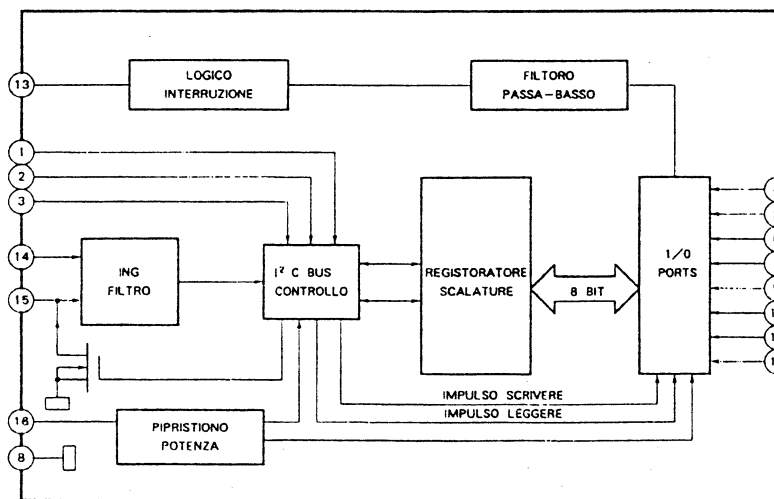
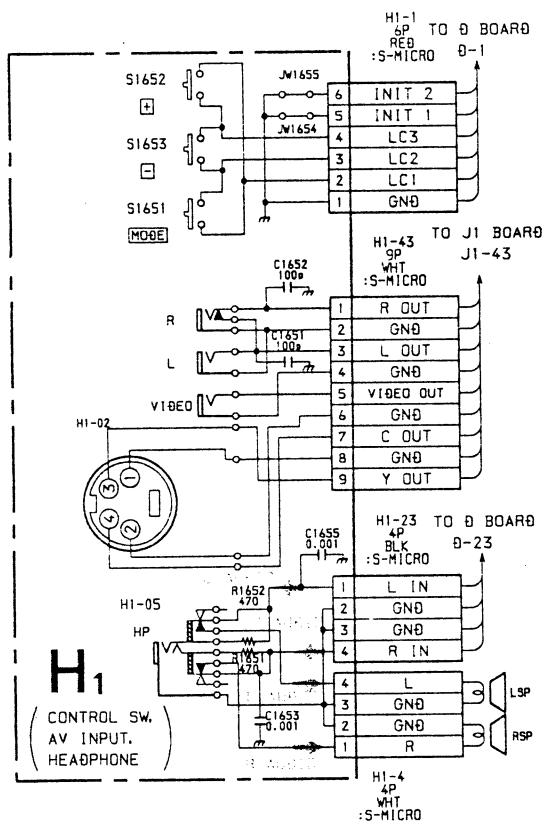
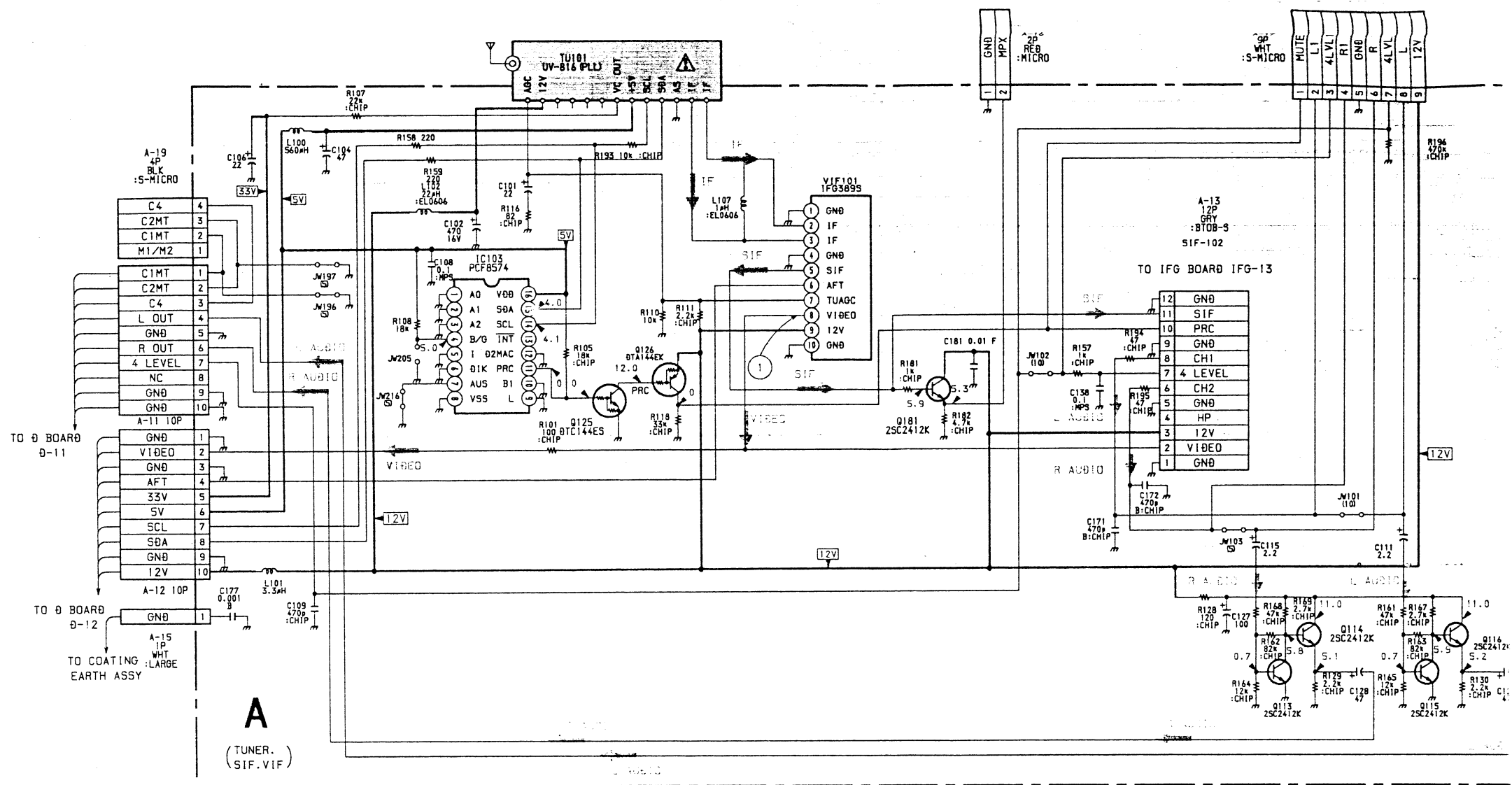


—H1 Board—

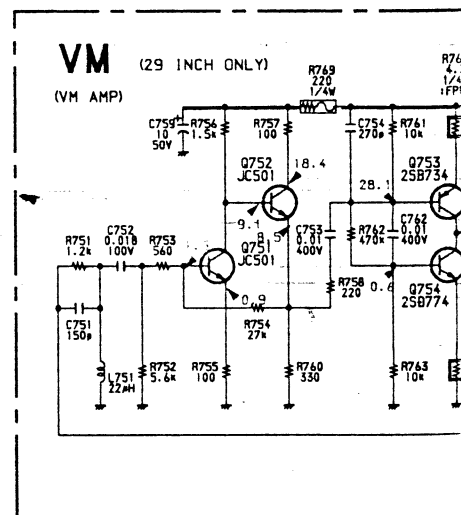
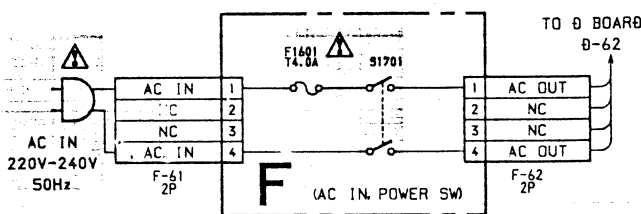
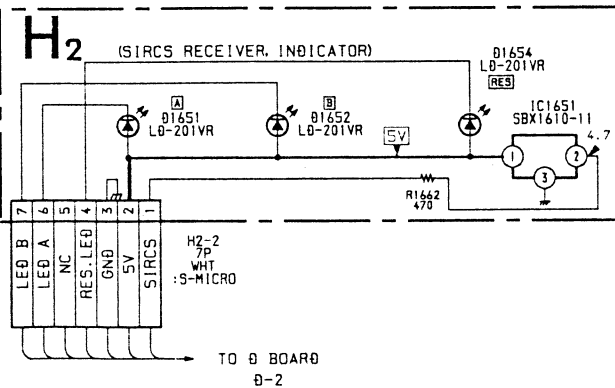


—H2 Board—

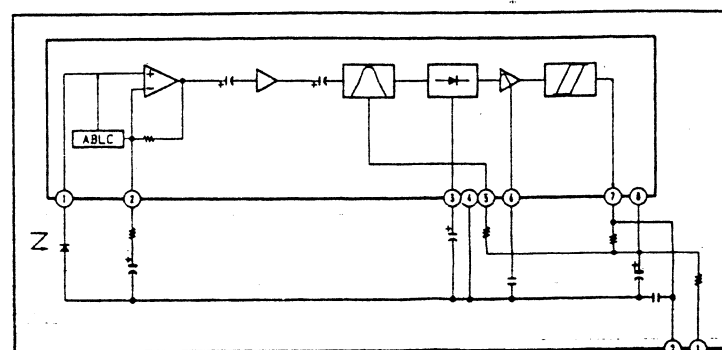




IC103	PCF8574	EXPANDER
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC144ES	MUTE SW
Q126	DTA144EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER

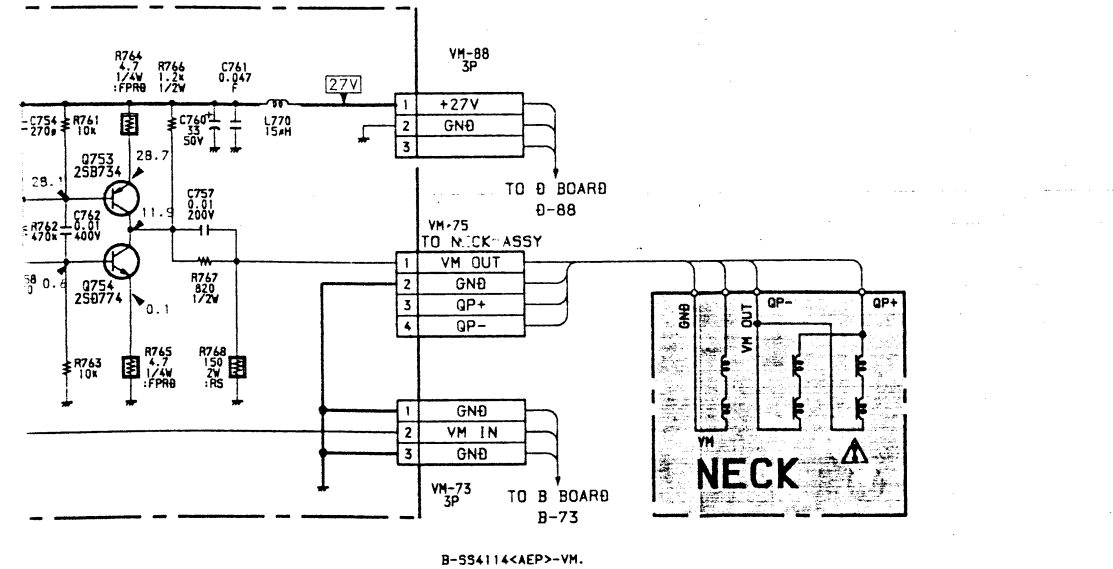
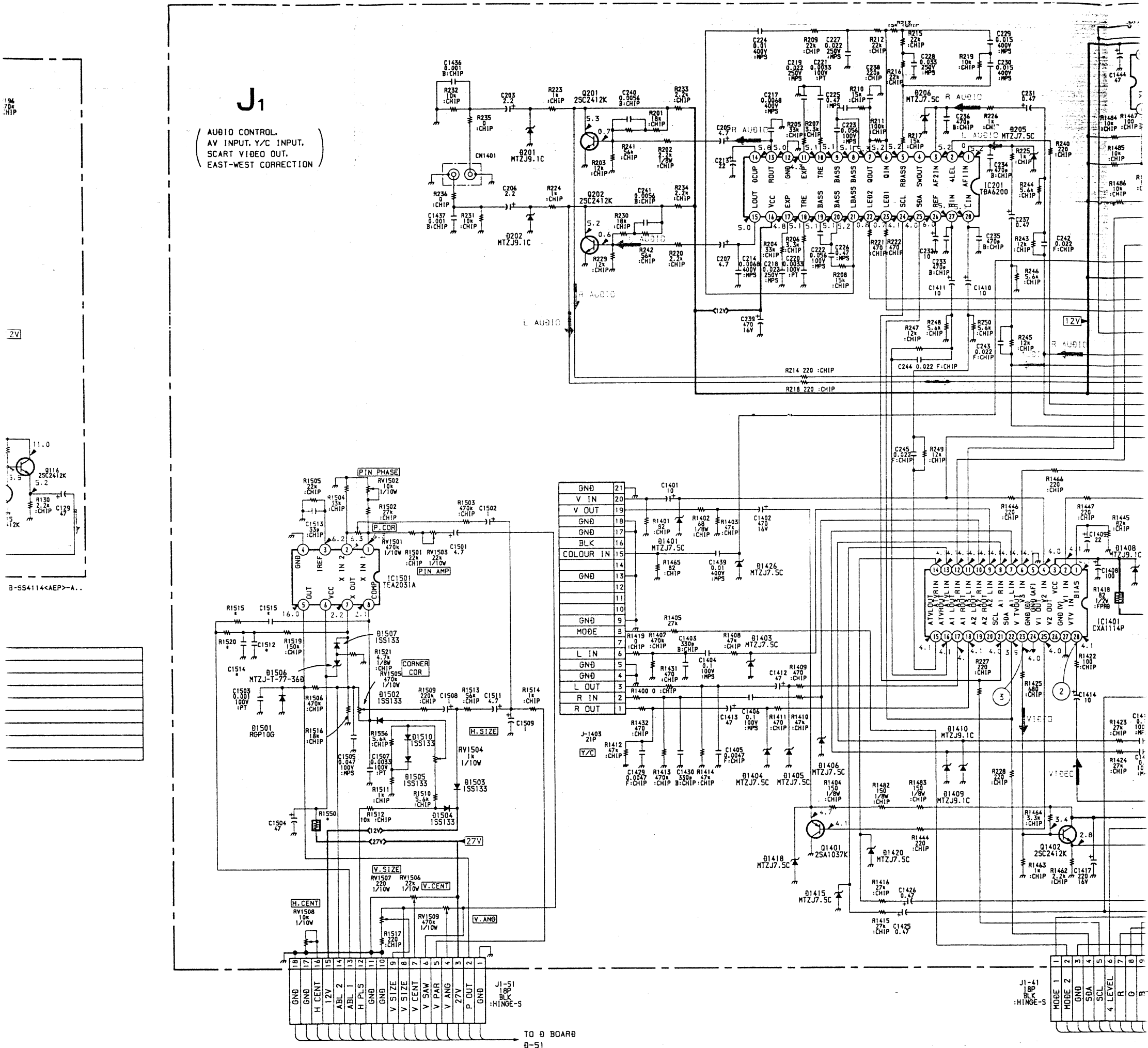


IC1651	SBX1610-11	INFRARED RECIEVER
D1651	LD-201VR	AUDIO CHANNEL A INDICATOR
D1652	LD-201VR	AUDIO CHANNEL B INDICATOR
D1654	LD-201VR	RESET



Q751	JC501	REF-AMP
Q752	JC501	REF-AMP
Q753	2SB734	PUSH-PULL OUT
Q754	2SD774	PUSH-PULL OUT





(Y)

IP

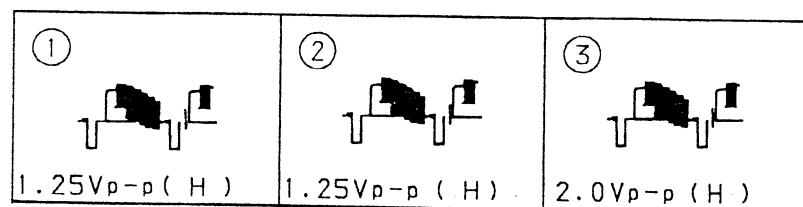
IP

PULL OUT

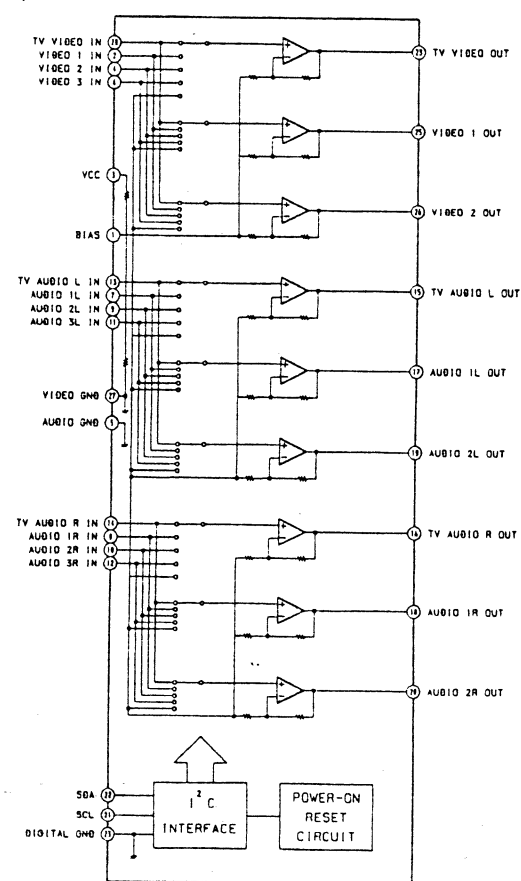
PULL OUT



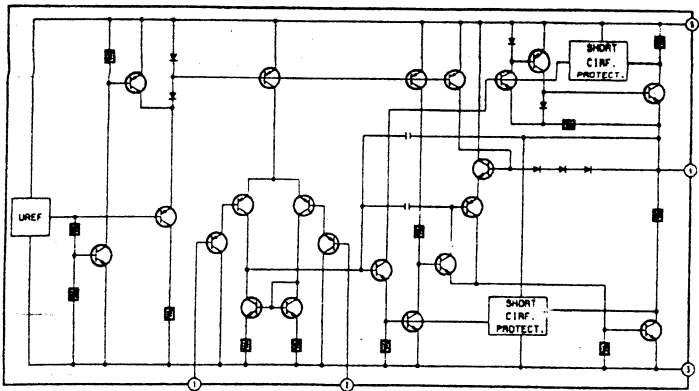
IC201	TDA6200	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q201	2SC24*2K	AUDIO R BUFF
Q202	2SC2412K	AUDIO L BUFF
Q1401	2SA1037K	VIDEO OUT
Q1402	2SC2412K	VIDEO OUT BUFF
Q1403	2SC2412K	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
D201	MTZJ9.1C	PROTECT
D202	MTZJ9.1C	PROTECT
D205	MTZJ7.5C	PROTECT
D206	MTZJ7.5C	PROTECT
D1401	MTZJ7.5C	PROTECT
D1403	MTZJ7.5C	PROTECT
D1404	MTZJ7.5C	PROTECT
D1405	MTZJ7.5C	PROTECT
D1406	MTZJ7.5C	PROTECT
D1407	MTZN10C	PROTECT
D1408	MTZJ9.1C	REG
D1409	MTZJ9.1C	PROTECT
D1410	MTZJ9.1C	PROTECT
D1415	MTZJ7.5C	PROTECT
D1418	MTZJ7.5C	PROTECT
D1419	MTZJ7.5C	PROTECT
D1420	MTZJ7.5C	PROTECT
D1421	MTZJ7.5C	PROTECT
D1422	MTZJ7.5C	PROTECT
D1423	MTZJ7.5C	PROTECT
D1424	MTZJ7.5C	PROTECT
D1425	MTZJ7.5C	PROTECT
D1426	MTZJ7.5C	PROTECT
D1501	RGP10G	PROTECT
D1502	1SS133	DECOUPLING H SIZE
D1503	1SS133	CLIPPING V PARABORA
D1504	1SS133	CLIPPING H PULSE
D1505	1SS133	REG
D1506	MTZJ36D	PROTECT
D1507	1SS133	PROTECT
D1510	1SS133	REG



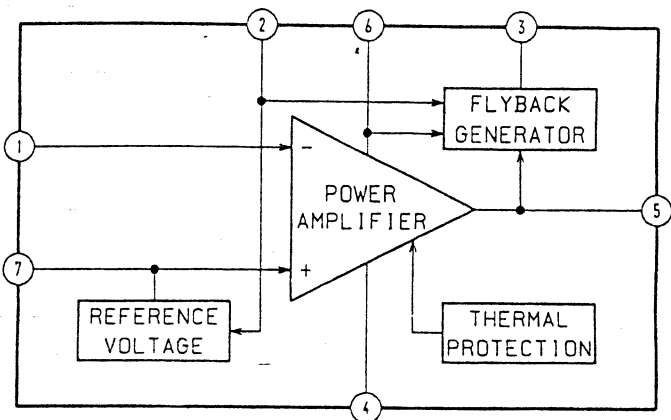
The block diagram illustrates the SCART R/P system architecture. It features a central 'Switching logic' block that receives inputs from a 'SCART R/P' block (pins 1, 2, 3, 4, 5, 6, 7) and a 'Ch1/Cn2' block (pins 1, 2, 3, 4, 5, 6, 7). The 'Switching logic' block is connected to a '12Cbus Interface' (pins 25, 26, 27) and an 'LED driver' (pins 13, 22, 21). The 'Switching logic' block also controls a 'D/A converter' (pins 18, 19, 17, 16, 15) which outputs to a 'B' block (pins 18, 19, 17, 16, 15), a 'T' block (pins 18, 19, 17, 16, 15), a 'Bw' block (pins 18, 19, 17, 16, 15), and a 'Volume' block (pins 18, 19, 17, 16, 15). The 'Switching logic' block also controls a 'Quasistereo' block (pins 1, 2, 3, 4, 5, 6, 7) which outputs to a 'B' block (pins 1, 2, 3, 4, 5, 6, 7), a 'T' block (pins 1, 2, 3, 4, 5, 6, 7), a 'Bw' block (pins 1, 2, 3, 4, 5, 6, 7), and a 'Volume' block (pins 1, 2, 3, 4, 5, 6, 7). The 'Quasistereo' block is connected to a 'D/A converter' (pins 18, 19, 17, 16, 15) which outputs to a 'B' block (pins 18, 19, 17, 16, 15), a 'T' block (pins 18, 19, 17, 16, 15), a 'Bw' block (pins 18, 19, 17, 16, 15), and a 'Volume' block (pins 18, 19, 17, 16, 15).

[illegible]

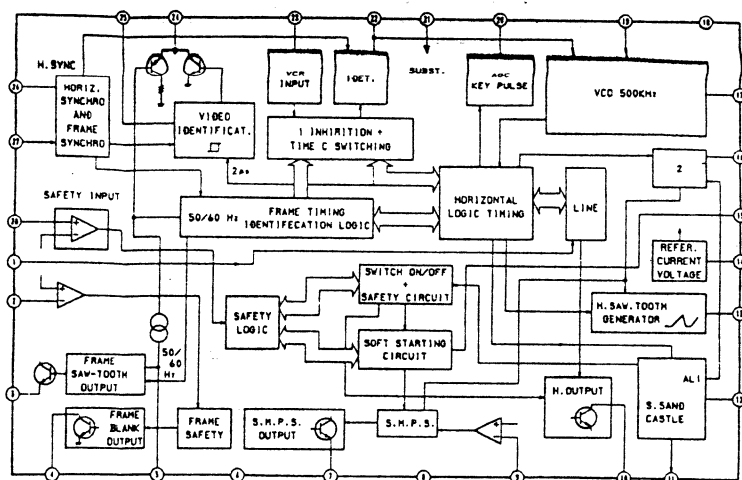




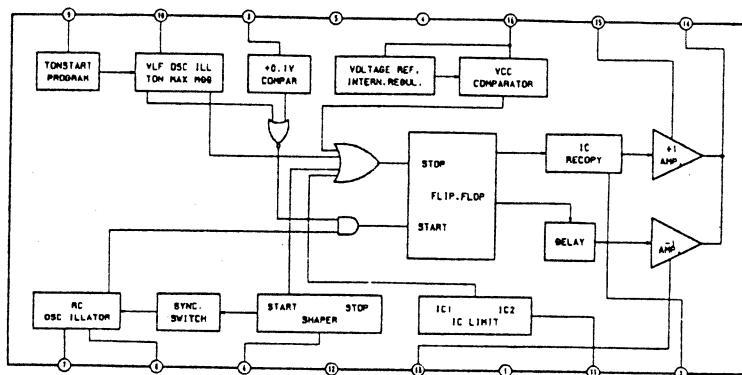
D BOARD IC502 TDA8170



D BOARD IC501 TEA2028B



D BOARD IC601 TEA2260



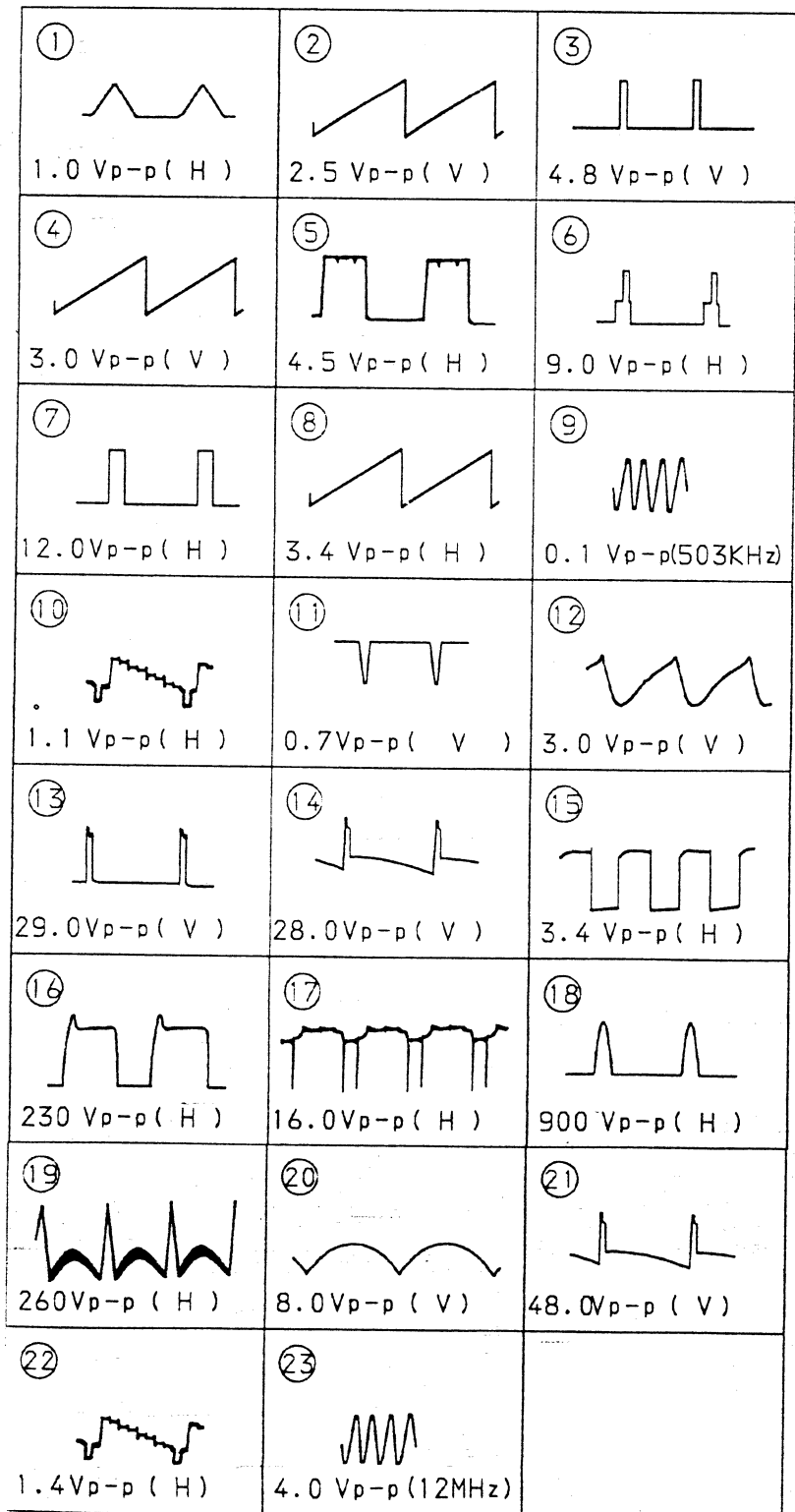
## • D BOARD

IC001	SDA2050-AD12	TUNING
IC002	MC14051BCP	ON S
IC003	BA4558	AFT
IC005	SDA2546	MY A
IC251	TDA2050	AUDIC
IC261	TDA2050	AUDIC
IC501	TEA2028B	DEFLE
IC502	TDA8170	V OU
IC601	TEA2260	PRIMA
IC604	TEA7605	+ 5V
IC608	MC7812CT	+ 12V

Q001	DTC144EK	50/60
Q002	DTC144EK	BLK S
Q003	2SA1037K	SYNCH
Q004	2SA1037K	SYNCH
Q005	DTC144EK	Y/C S
Q006	DTC144EK	FRONT
Q007	2SC2412K	MODE
Q008	2SC2412K	MODE
Q009	2SC2412K	MUTE
Q010	2SC2412K	RESET
Q251	2SC2412K	AUDIO
Q261	2SC2412K	AUDIO
Q271	2SC2412K	VOLTA
Q502	2SA1037K	CONST
Q505	2SD774-4	V CEN
Q506	2SB734-3	V CEN
Q507	2SA1037K	CANAL
Q598	2SA1037K	VIDEO
Q601	2SB1357T114EF	STBY S
Q602	2SD1548	REG O
Q603	2SB1357T114EF	STBY S
Q604	2SA1037K	FAST C
Q605	2SC2412K	STBY S
Q606	2SC2412K	STBY S
Q607	2SD2096	+ 12V
Q608	2SC2412K	STBY S
Q609	2SD789-3	STBY S
Q801	2SC2412K	ABL AM
Q804	2SD1941-06	H OUT
Q805	2SC2688-L	H DRIVE

D001	MTZJ6.8C	PROTEC
D002	MTZJ6.8C	PROTEC
D003	1SS133	HUE CT
D005	MTZJ5.6B	PROT
D006	MTZJ33A	VC VOL
D007	MTZJ3.9B	PLOT F
D009	MTZJ5.6B	CLIPPIN
D010	MTZJ6.2B	PROT
D011	MTZJ6.2B	PROT
D012	1SS133	PROT
D013	MTZJ6.8C	PROT
D271	MTZJ13B	VOLTAG
D272	1SS133	DECOUP
D501	1SS133	START
D504	GP08D	V PULS
D506	DA204K	CURREN
D508	1SS133	CANAL
D509	1SS133	V LIN (2
D511	GP08D	PROT
D512	GP08D	PROT
D513	MTZJ4.7B	PROT
D514	1SS133	PROT (2
D515	1SS133	PROT (2
D601	D4SB60L-F	AC REC
D602	RGP10G	REF REC
D603	GP08D	SMPS D
D604	GP08D	SMPS D
D605	GP08D	SMPS D
D606	RGP10G	+ 12V R
D607	RGP10G	REF REC
D608	ERC25-06S	PLUSE C
D609	MTZJ33A	FAST ON
D610	CTU-12S	+ 14V R
D611	ERD29-08J	+ 135V F
D612	CTU-12S	+ 7V RE
D613	RGP15J	AF V RE
D614	RGP15J	AF V RE
D616	MTZJ6.2B	+ 12V R
D617	1SS133	PROT
D618	MTZJ5.6B	+ 12V R
D619	MTZJ33A	FAST ON
D620	DA204K	+ 12V R
D621	MTZJ33A	FAST ON
D622	1SS133	PROT
D623	1SS133	DECOUPL
D624	1SS133	DECOUPL
D630	MTZJ15A	+ 12V R
D801	RGP10G	+ 27V RE
D802	RGP10G	+ 200V F
D803	RGP02-17	G2 RECT
D804	GP08D	H CENTER
D805	GP08D	H CENTER
D806	ERC06-15S	H DAMPE
D807	ERC06-15S	H DAMPE
D808	ERD28-08S	PIN DAM
D808	ERD29-08J	PIN DAM

## • WAVEFORMS D BOARD

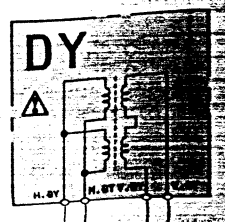
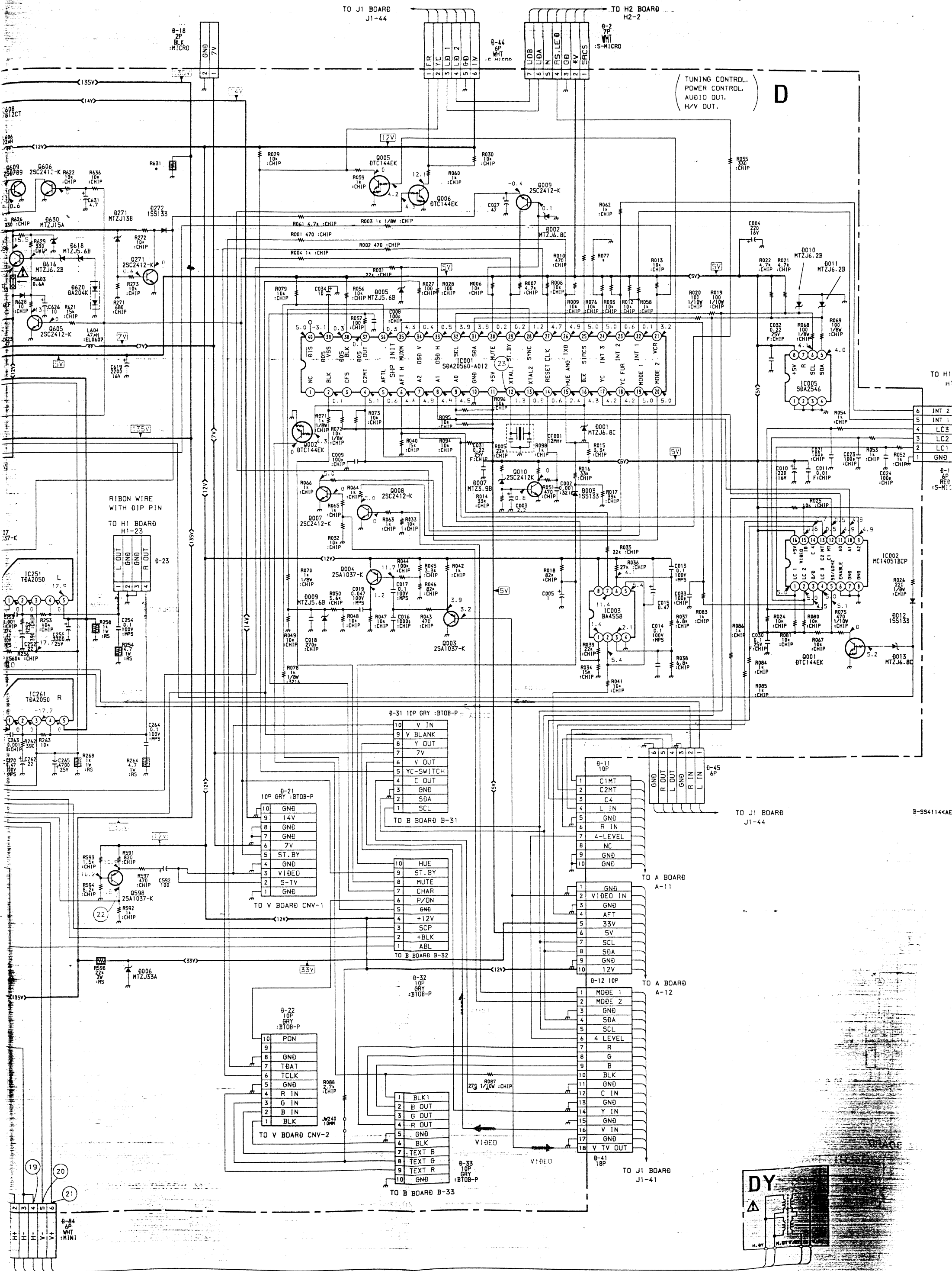


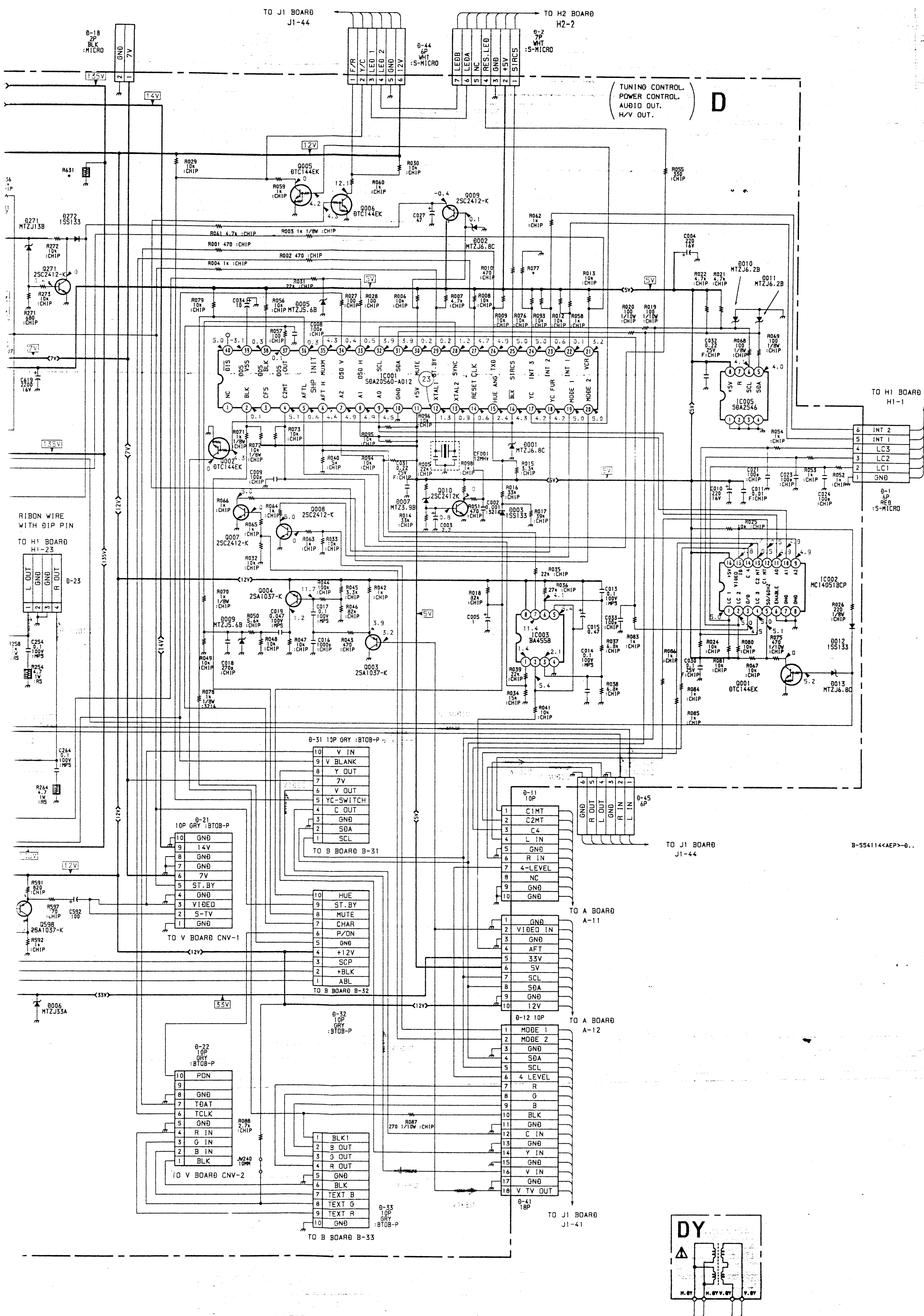
## D BOARD \* MARK

	21"	25"	29"		21"	25"	29"
C519	0.47	0.47	0.33	L806	DCC-H	DRAM CORE	HCC DUST
C526	27P	27P	22P			(CDI)	CORE 3.9mH
C536	4.7 16V	10 16V	10 16V	L810	WITH CORE	PMC	PMT
C617	220 25V	100 50V	100 50V				
C620	1 63V	0.47 50V	0.47 50V	R077	1K	-	1K
C811	1 200V	2 200V	2 200V	R525	1K	1K	-
C815	1 200V	1 200V	0.82 200V	R531	-	120K	120K
C817	0.0106 1.4KV	0.015 1.4KV	0.017 1.4KV	R532	-	1K	1K
C821	680P 2KV	680P 2KV	470P 2KV	R533	180	0	0
				R535	4.7M	2.2M	2.2M
D-88	-	-	3P	R545	39K	22K	22K
				R547	5.6K	3.3K	3.3K
D506	DA204K	DA204K	-	R548	1.2 1W F	1 1W F	1 1W F
D509	-	1SS133	1SS133	R549	470 2W F	390 2W F	390 2W F
D514	5mm JW	5mm JW	1SS133	R552	1.2K 1W	-	-
D515	-	-	1SS133	R561	-	-	270K
D807	-	ERC26-15S	ERC06-15S	R570	-	-	680
D808	ERD28-08S	ERD29-08J	ERD29-08J	R600	-	1	1
				R603	15 3W F	12 3W F	12 3W F
JW202	-	-	5mm	R607	4.7K	4.7K	5.6K
JW203	5mm	5mm	-	R631	27K 2W	27K 2W	-
JW204	5mm	5mm	-	R643	0.15 2W F	0.12 2W F	0.12 2W F
JW205	-	-	5mm	R811	100 1W	22 2W F	22 2W F
JW206	5mm	5mm	-	R812	75K 1/2W	68K 1/2W	51K 1/2W
JW207	5mm	5mm	-	R825	1 1W F	0.47 1W F	0.47 1W F
JW216	15mm	15mm	-	R5503	4.7	4.7	10
JW229	10mm	10mm	-	R5506	-	-	12K
L801	-	-	3.9mH				

- : NOT MOUNTED



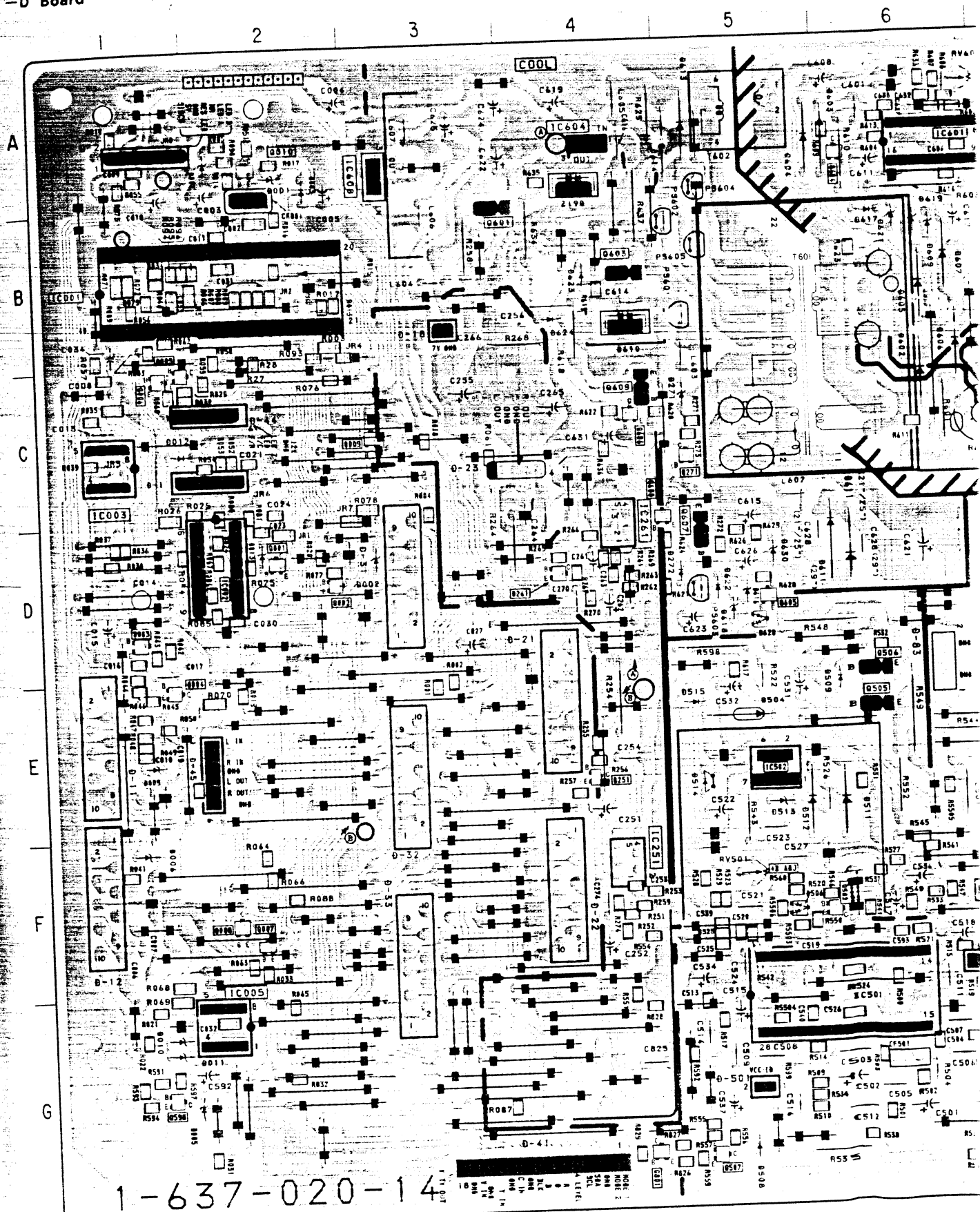


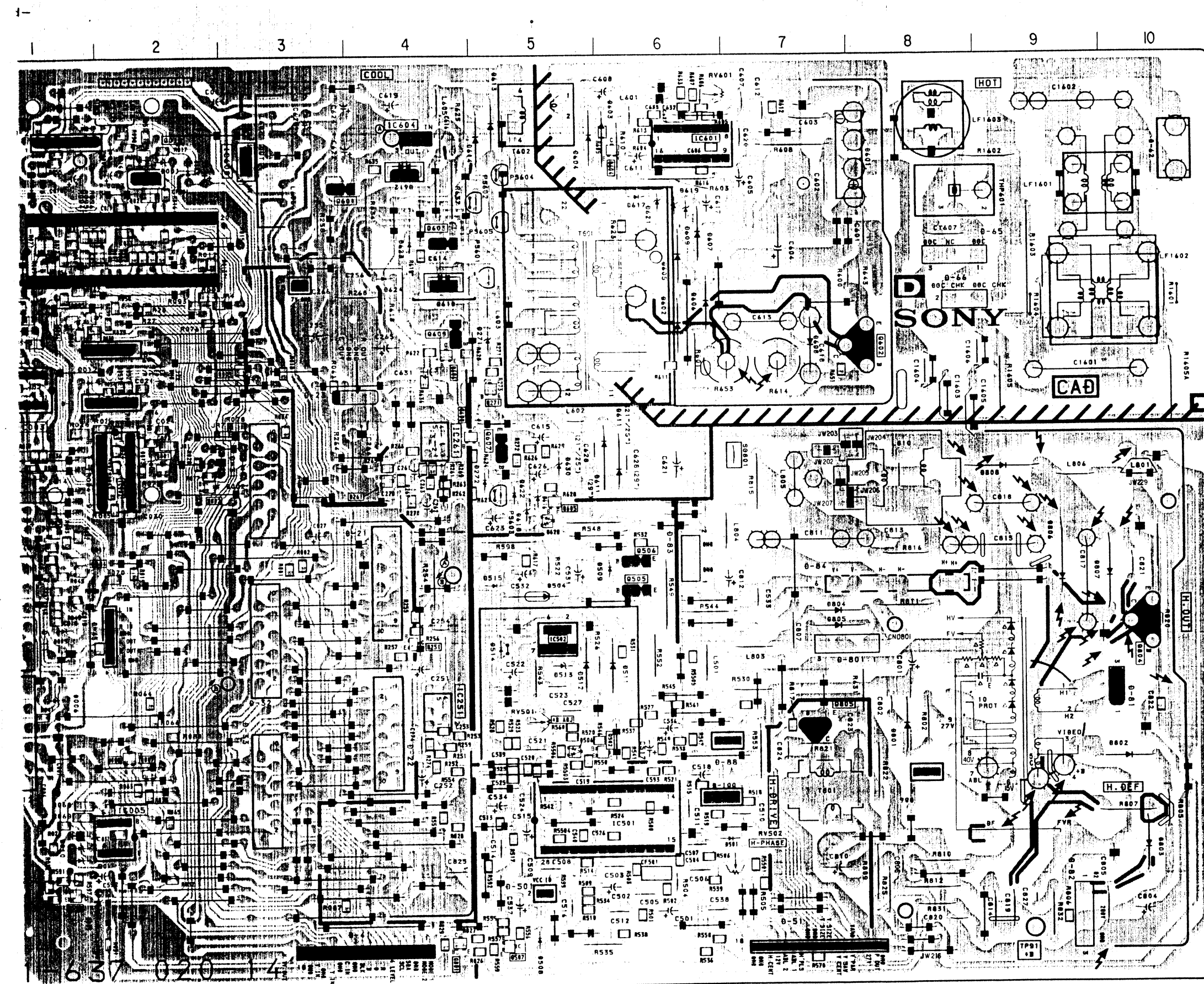




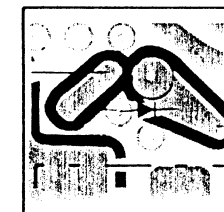
TUNING CONTROL, POWER CONTROL,  
AUDIO OUT, H/V OUT

**-D Board-**



TUNING CONTROL, POWER CONTROL,  
AUDIO OUT, H/V OUT

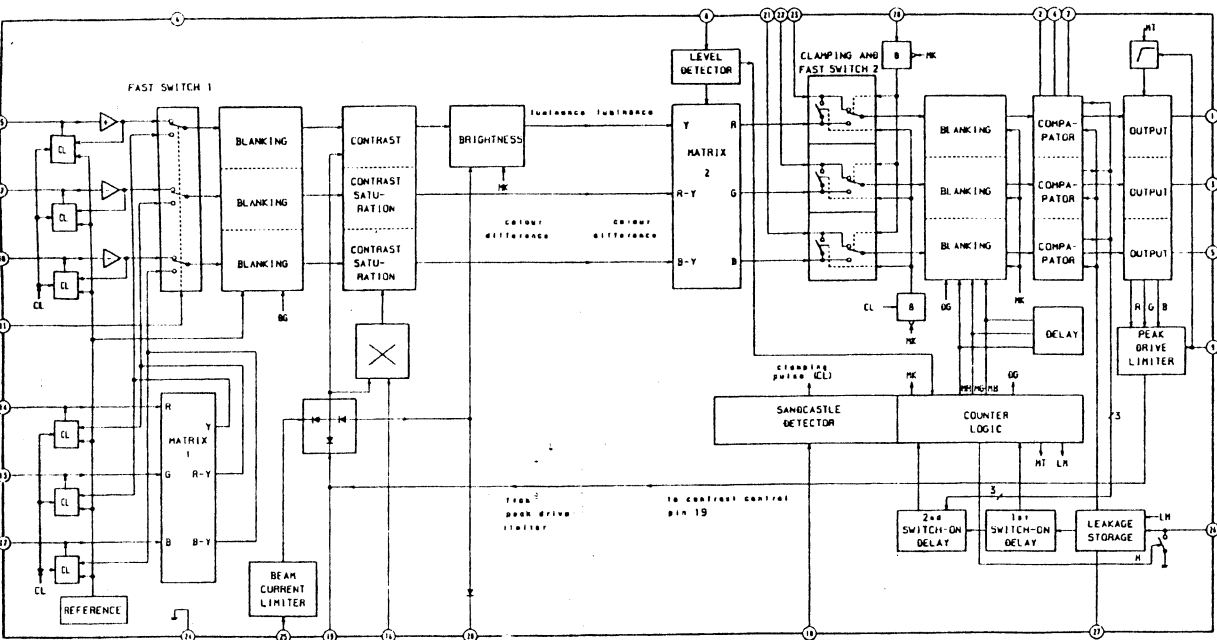
IC		D012	C-1
IC001	B-2	D013	D-2
IC002	C-2	D271	C-5
IC003	C-1	D272	D-5
IC005	G-2	D501	G-7
IC251	F-4	D504	E-5
IC261	D-4	D506	F-5
IC501	G-6	D508	G-5
IC502	E-5	D509	F-5
IC601	A-6	D511	E-6
IC604	A-4	D512	E-5
IC608	A-3	D513	E-5
		D514	E-5
		D515	E-5
		D601	A-8
		D602	C-6
		D603	A-5
		D604	A-4
		D605	B-6
		D606	B-6
		D607	B-6
		D608	C-7
		D609	B-6
		D610	B-4
		D611	D-6
		D612	A-4
		D613	A-5
		D614	A-5
		D616	D-5
		D617	B-6
		D618	D-5
		D619	B-6
		D620	D-5
		D621	B-6
		D622	D-5
		D623	B-4
		D624	B-4
		D630	D-5
		D801	F-8
		D802	F-10
		D803	G-10
		D804	E-7
		D805	E-7
		D806	E-9
		D807	E-10
		D808	D-9
TRANSISTOR		VARIABLE RESISTOR	
Q001	C-2	RV501	F-5
Q002	C-2	RV502	G-7
Q003	D-1	RV601	A-6
Q004	D-4		
Q005	C-1		
Q006	C-1		
Q007	F-2		
Q008	F-2		
Q009	C-3		
Q010	A-2		
Q251	E-4		
Q271	C-5		
Q502	F-5		
Q505	E-6		
Q506	D-6		
Q507	G-4		
Q598	G-1		
Q601	B-3		
Q602	C-8		
Q603	B-4		
Q604	A-6		
Q605	D-5		
Q606	C-4		
Q607	D-5		
Q608	C-4		
Q609	C-4		
Q801	G-4		
Q804	E-10		
Q805	F-7		
DIODE		TP	
D001	A-2	TP91	G-9
D002	D-3		
D003	A-2		
D005	G-1		
D006	F-1		
D007	A-2		
D009	E-1		
D010	G-1		
D011	G-1		



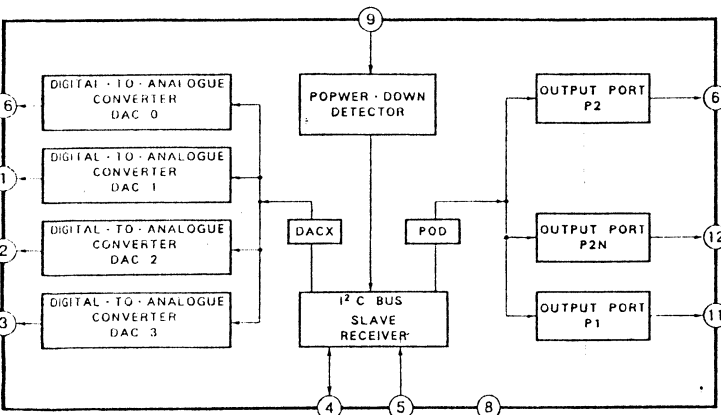
**NOTE:**  
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



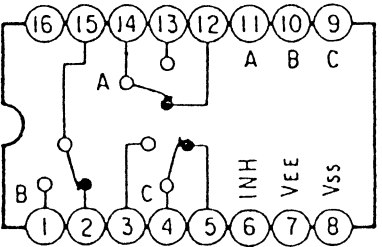
B BOARD IC301 TDA4580-V7



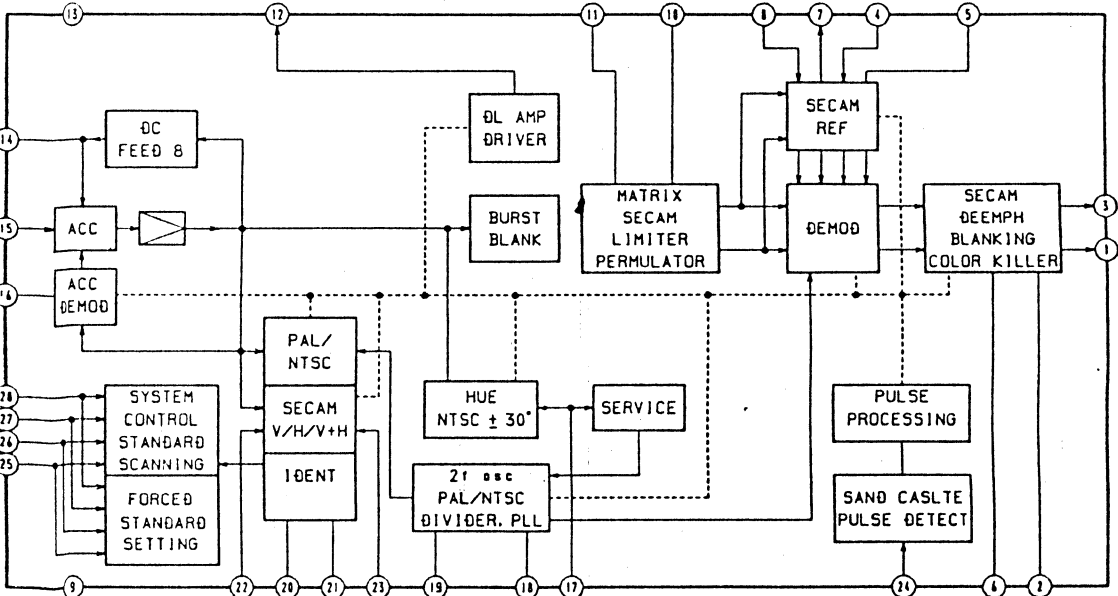
B BOARD IC302 TDA8442-N3



B BOARD IC303 MC14053BCP



B BOARD IC331 TDA4650



• WAVEFORMS B BOARD

① PAL, SECAM 4.8 Vp-p (H)	① NTSC 3.58/4.43 5.0Vp-p (H)	② PAL, SECAM 4.8Vp-p (H)	② NTSC 3.58/4.43 4.8Vp-p (H)	③ PAL, SECAM 4.8Vp-p (H)	③ NTSC 3.58/4.43 4.8Vp-p (H)
④ 9.5Vp-p (H)	⑤ PAL 0.4Vp-p (H)	⑤ SECAM 0.36Vp-p (H)	⑤ NTSC 3.58/4.43 0.46Vp-p (H)	⑥ PAL, SECAM 0.9Vp-p (H)	⑥ NTSC 3.58/4.43 0.7Vp-p (H)
⑦ PAL, SECAM 1.1 Vp-p (H)	⑦ NTSC 3.58/4.43 1.25Vp-p (H)	⑧ PAL 0.5Vp-p (H)	⑧ SECAM 1.1Vp-p (H)	⑧ NTSC 3.58/4.43 0.4Vp-p (H)	⑨ PAL 0.6Vp-p (H)
⑨ SECAM 1.5 Vp-p (H)	⑨ NTSC 3.58/4.43 0.6Vp-p (H)	⑩ SECAM 0.75Vp-p (H)	⑩ SECAM 0.2Vp-p (H)	⑫ PAL 0.2Vp-p (H)	⑫ SECAM 0.12Vp-p (H)
⑫ NTSC 3.58/4.43 0.17Vp-p (H)	⑬ PAL 0.4Vp-p (H)	⑬ SECAM 0.12Vp-p (H)	⑬ NTSC 3.58/4.43 0.3Vp-p (H)	⑭ PAL 1.25 Vp-p (H)	⑭ SECAM 1.25Vp-p (H)
⑭ NTSC 3.58/4.43 1.1Vp-p (H)	⑮ PAL 1.25Vp-p (H)	⑮ SECAM 1.25 Vp-p (H)	⑮ NTSC 3.58/4.43 1.2Vp-p (H)	⑯ PAL, NTSC 0.5Vp-p (H)	⑯ NTSC 3.58/4.43 0.5Vp-p (H)

As to the voltage value shown by the mark ※ on the Schematic Diagram, see the another list.

		PAL	SECAM	NTSC3.58	NTSC4.43
IC301	(B)	0.1	0.1	5.8	0.1
	(26)	6.7	6.8	5.1	6.5
	IC331	(19)	3.1	3.6	3.1
		(21)	3.0	3.5	2.9
		(22)	5.6	5.6	7.1
		(23)	7.5	7.0	5.6
		(25)	0.1	0.1	5.8
		(26)	0.1	0.1	5.8
		(27)	0.1	5.8	0.1
		(28)	5.9	0.1	0.1
	(B)	0.1	0.1	5.8	0.1
	(C)	0.3	0.4	0	0.8
Q331	(B)	4.4	4.4	4.4	4.4
Q333	(B)	4.9	0.1	4.8	4.8
Q334	(B)	0.1	4.8	0.1	0.1
Q335	(B)	0.1	4.8	0.1	0.1



• B BOARD

IC301	TDA4580-V7	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTER 1 <sup>2</sup> C BUS
IC303	MC14053BCP	Y/C COMP SW
IC331	TDA4650	COLOR PROCESSOR
IC332	TDA4660-V2	1H-DEALY
IC1301	HIC2110	SHARPNESS CONTROL (29 INCH ONLY)
Q301	2SC2412K	Y AMP (21/25 INCH ONLY)
Q303	2SC2412K	STBY SW
Q305	DTA144EK	ANTI PRIORITY SCART
Q306	JC501	VIDEO BUF (HUE)
Q311	2SC2412K	ON SCREEN DISPLAY SW
Q312	2SC2412K	CANRL + BLK
Q313	2SC2412K	ON SCREEN DISPLAY
Q316	2SC2412K	FAS PICTURE MUTE SW
Q330	2SA1037K	VIDEO AMP
Q331	DTC124EK	NTSC SW
Q332	2SA1037K	VIDEO BUFF
Q333	2SA1037K	Y AMP
Q334	2SC2412K	PAL/NTSC SW
Q335	2SC2412K	SECAM SW
Q381	DTC124EK	MUTE
Q382	2SC2412K	ABL
Q1301	DTC124EK	Y BUFF
Q1305	2SC2412K	Y OUT (29 INCH ONLY)
Q1306	2SC2412K	Y OUT
D301	1SS133	ACO AT STBY
D302	1SS133	ACO AT STBY
D303	1SS133	ACO AT STBY
D304	1SS133	DECOUPLING BLK
D305	1SS133	PROT
D307	MTZ11C	PROT
D309	1SS133	PROT
D310	MTZ11C	PROT
D311	MTZ11C	PROT
D312	MTZ11C	PROT
D313	1SS133	PROT
D314	1SS133	PROT
D315	1SS133	PROT
D316	1SS133	PROT
D317	1SS133	PROT
D318	1SS133	PROT
D319	1SS133	PROT
D320	1SS133	PROT
D331	1SS133	SECAM SW
D332	1SS133	SECAM SW
D333	1SS133	SECAM SW
D350	MTZJ5.6C	PROT

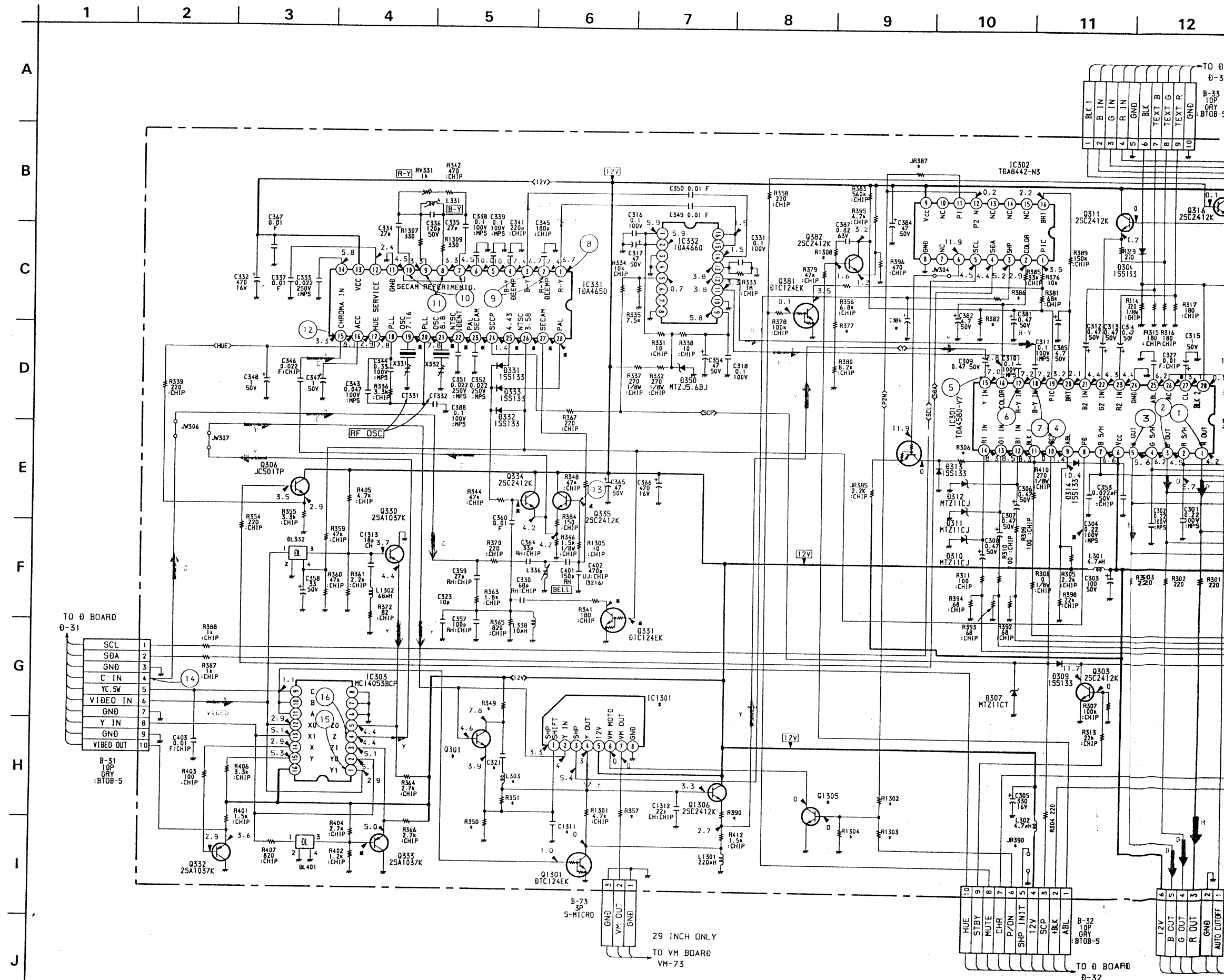
B BOARD \* MARK

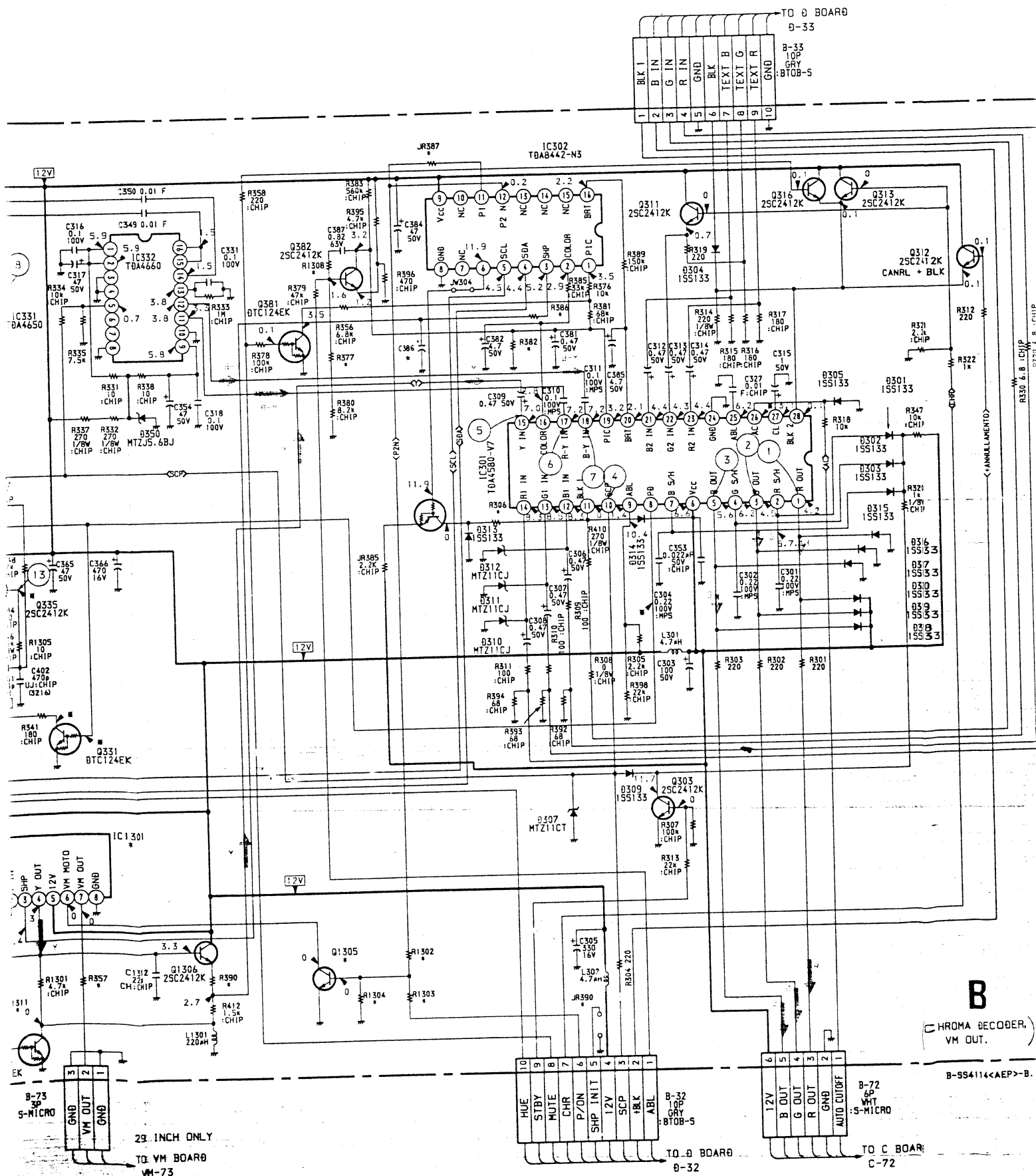
	21"	25"	29"
B 73	-	-	3P
C321	100P	100P	-
C386	-	-	47 50V
C1311	56P	56P	33P
IC1301	-	-	HIC2110
JR387	-	-	0: CHIP
JR390	0: CHIP	0: CHIP	-
L303	56 $\mu$ H	56 $\mu$ H	-
Q301	2SC2412K	2SC2412K	-
Q1305	-	-	2SC2412K
R306	-	-	0: CHIP
R349	680	680	-
R350	680	680	-
R351	220	680	-
R357	-	-	220
R377	330	330	1.8K
R382	270K	220K	220K
R386	-	-	3.3K
R390	220	220	100
R1302	-	-	47K
R1303	-	-	47K
R1304	-	-	100K
R1308	0	0	4.7K

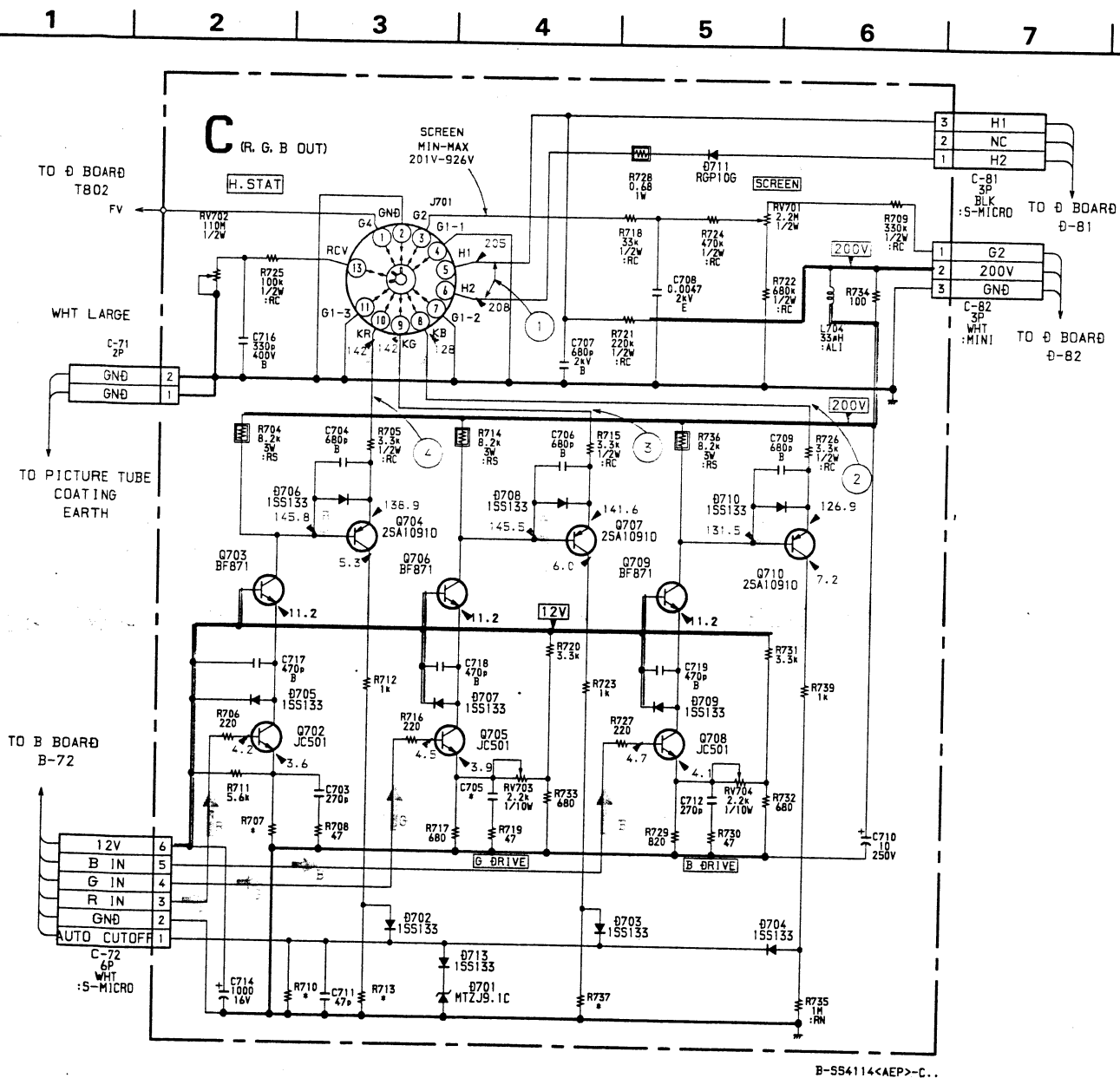
- : NOT MOUNTED

KV-C2161D/C2561D/C2961D  
RM-816

KV-C2161D/C2561D/C2961D  
RM-816

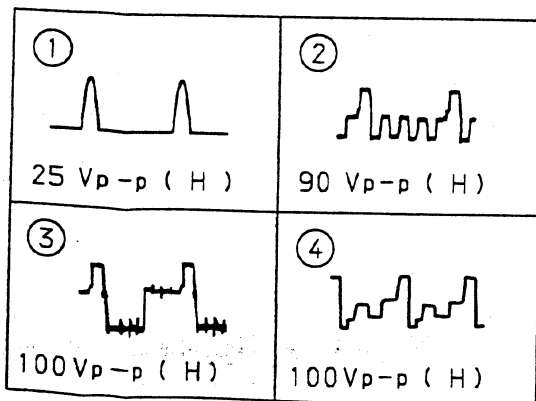






B-SS4114&lt;AEP&gt;-C..

## • WAVEFORMS C BOARD



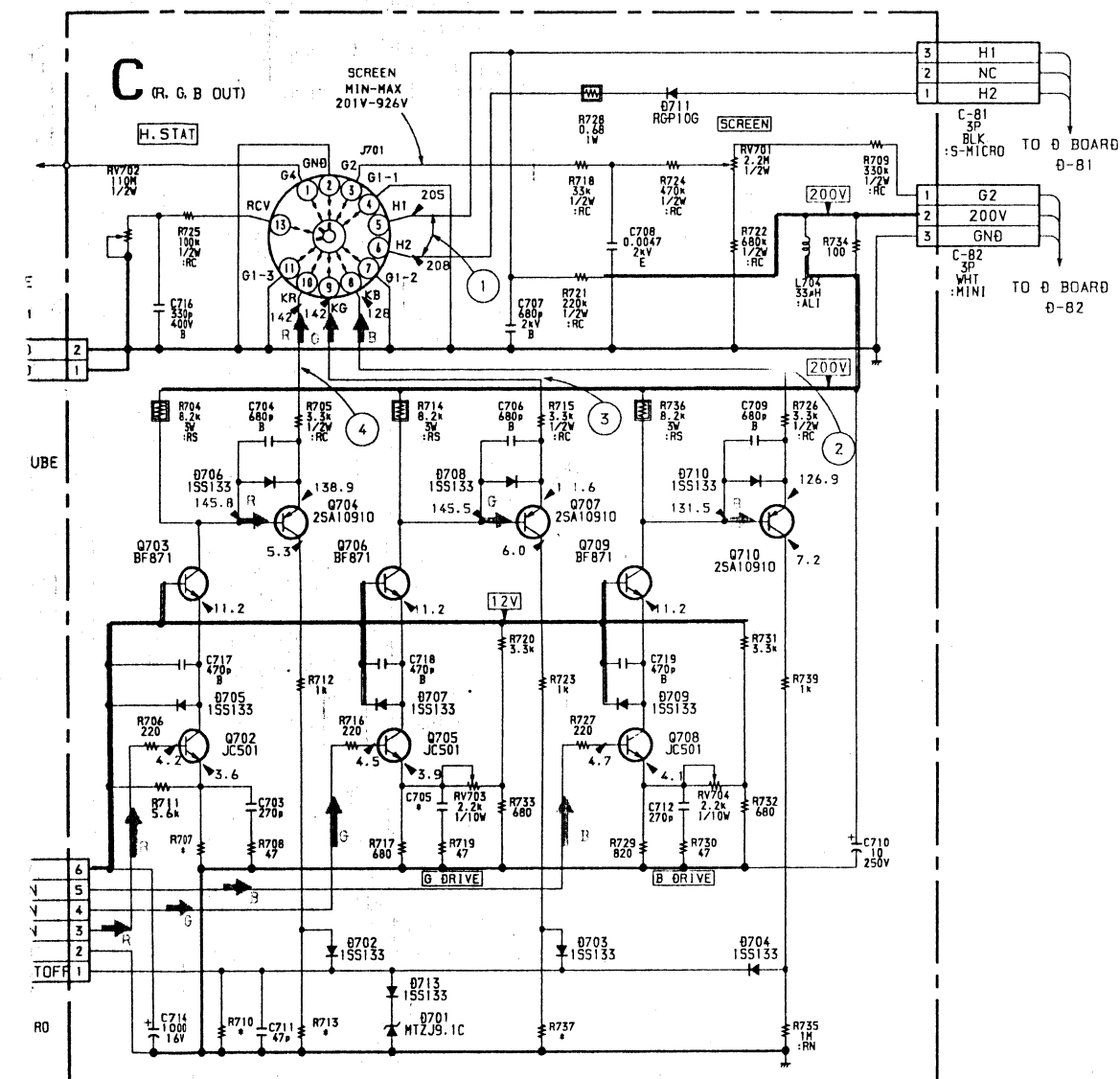
## • C BOARD

Q702	JC501	R DRIVE
Q703	BF871	R OUT
Q704	2SA10910	ACO MEASURING
Q705	JC501	G DRIVE
Q706	BF871	G OUT
Q707	2SA10910	ACO MEASURING
Q708	JC501	B DRIVE
Q709	BF871	B OUT
Q710	2SA10910	ACO MEASURING
D701	MTZJ9.1C	PROTECT
D702	1SS133	PROTECT
D703	1SS133	PROTECT
D704	1SS133	PROTECT
D705	1SS133	PROTECT
D706	1SS133	PROTECT
D707	1SS133	PROTECT
D708	1SS133	PROTECT
D709	1SS133	PROTECT
D710	1SS133	PROTECT
D711	RGP10G	HEATING VOLTAGE REC
D713	1SS133	PROTECT

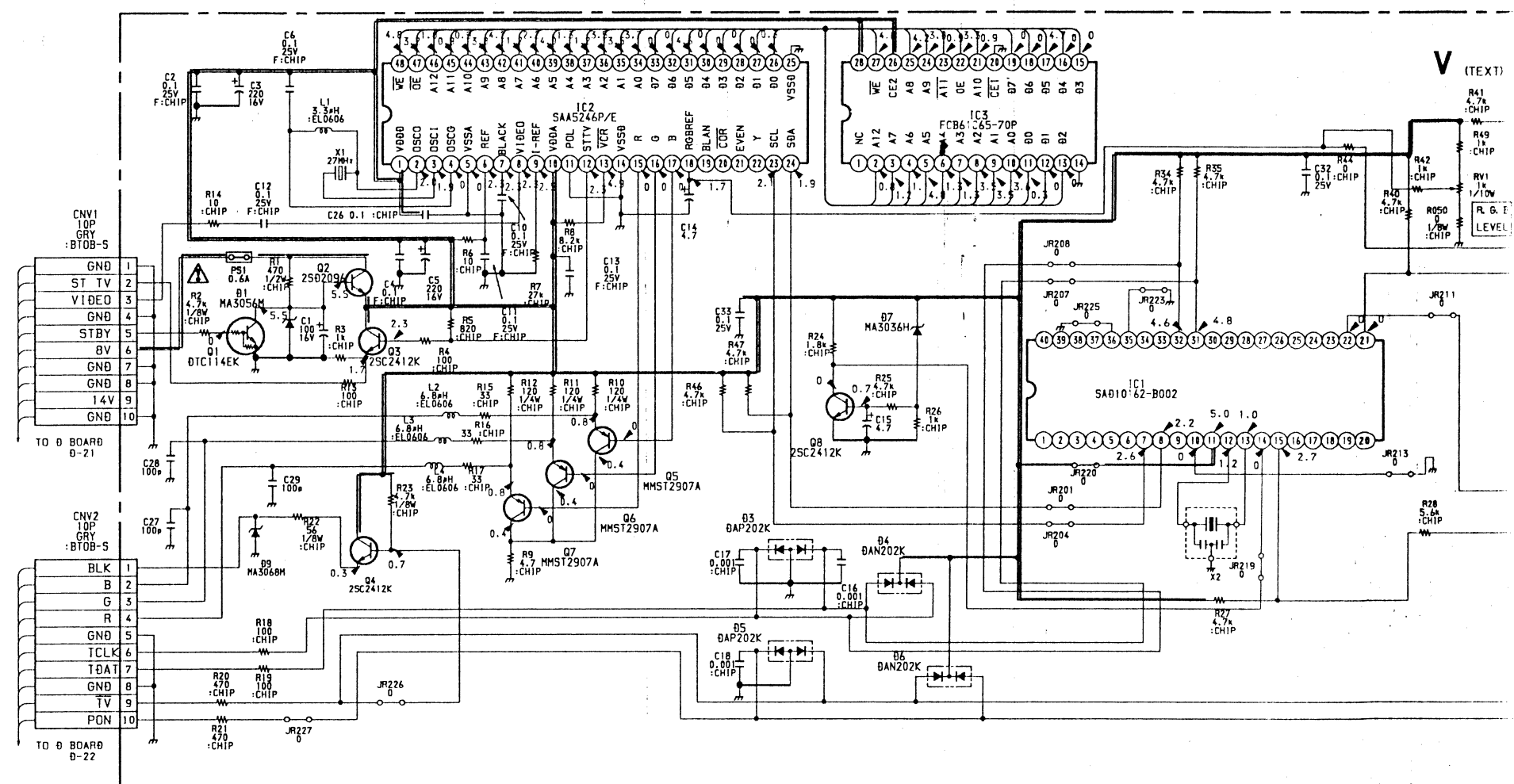
## C BOARD

C705
R707
R710
R713
R737

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



B-554114&lt;AEP&gt;-C..



B-554114&lt;AEP&gt;-V

## • V BOARD

IC1	SDA20162-B002	MICRO-CONT
IC2	SAA5246P/E	IVT
IC3	FCB61C65-70P	STATIC-RAM
Q1	DTC114EK	STAD BY
Q2	2SD2096	5V REG
Q3	2SC2412K	SYNC BUFFER
Q4	2SC2412K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G OUT
Q7	MMST2907A	R OUT
Q8	2SC2412K	RESET
D1	MA3056M	5V REG
D3	DAP202K	PROTEC
D4	DAN202K	PROTEC
D5	DAP202K	PROTEC
D6	DAN202K	PROTEC
D7	MA3036H	PROTEC
D9	MA3068M	PROTEC

## C BOARD \* MARK

	21"	25"	29"
C705	180P	220P	220P
R707	430	390	390
R710	100K	68K	68K
R713	160K	120K	120K
R737	390K	820K	470K

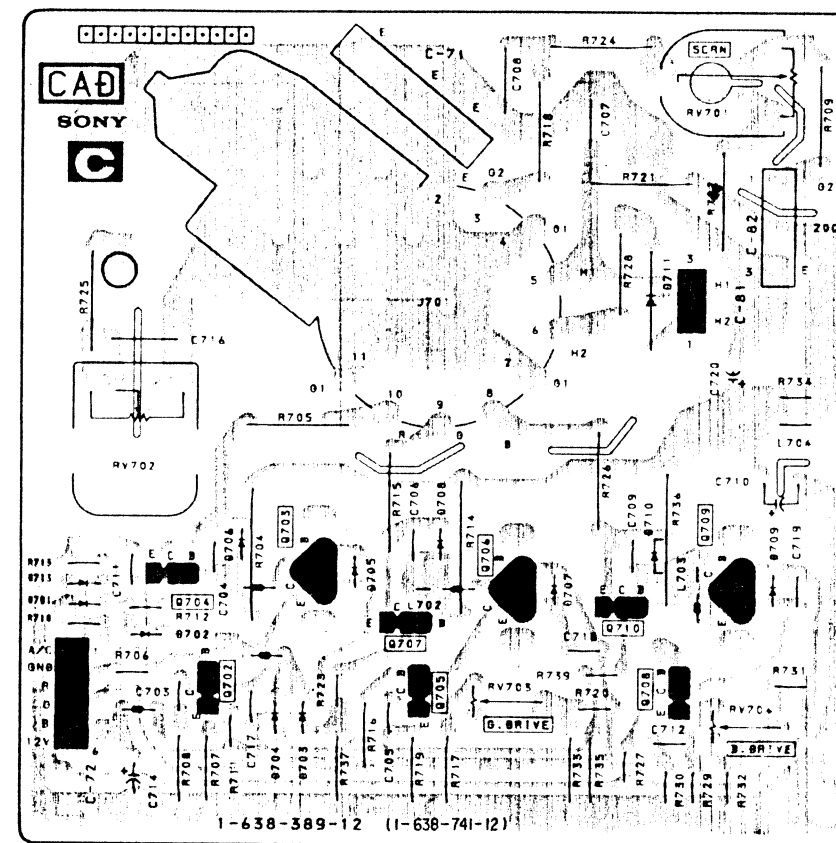
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## • C BOARD

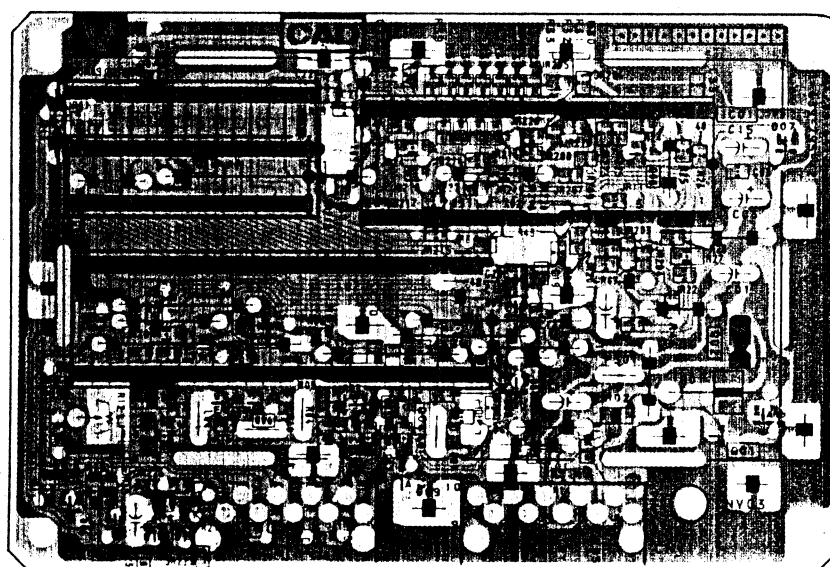
Q702	JC501	R DRIVE
Q703	BF871	R OUT
Q704	2SA10910	ACO MEASURING
Q705	JC501	G DRIVE
Q706	BF871	G OUT
Q707	2SA10910	ACO MEASURING
Q708	JC501	B DRIVE
Q709	BF871	B OUT
Q710	2SA10910	ACO MEASURING
D701	MTZJ9.1C	PROTECT
D702	1SS133	PROTECT
D703	1SS133	PROTECT
D704	1SS133	PROTECT
D705	1SS133	PROTECT
D706	1SS133	PROTECT
D707	1SS133	PROTECT
D708	1SS133	PROTECT
D709	1SS133	PROTECT
D710	1SS133	PROTECT
D711	RGP10G	HEATING VOLTAGE REC
D713	1SS133	PROTECT

- B Board -

**- C Board -**



— V Board —

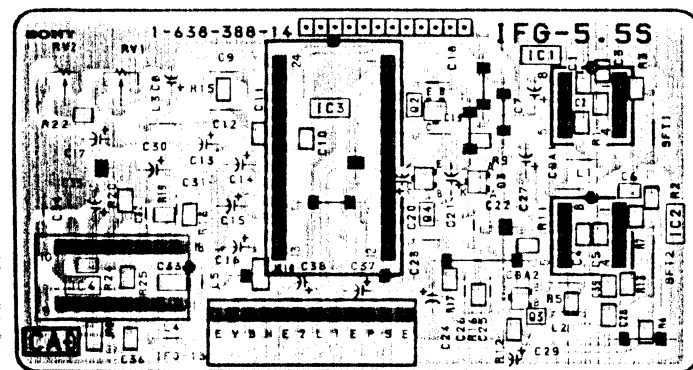


- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

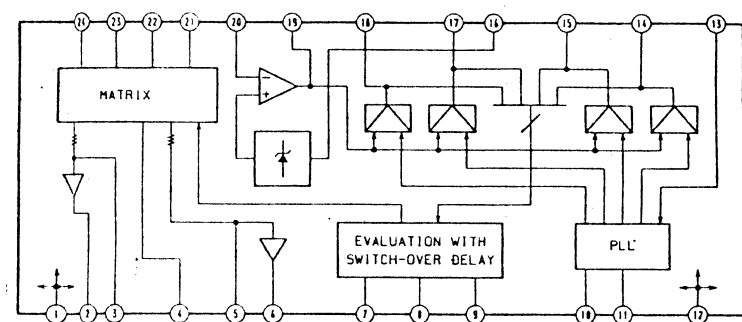


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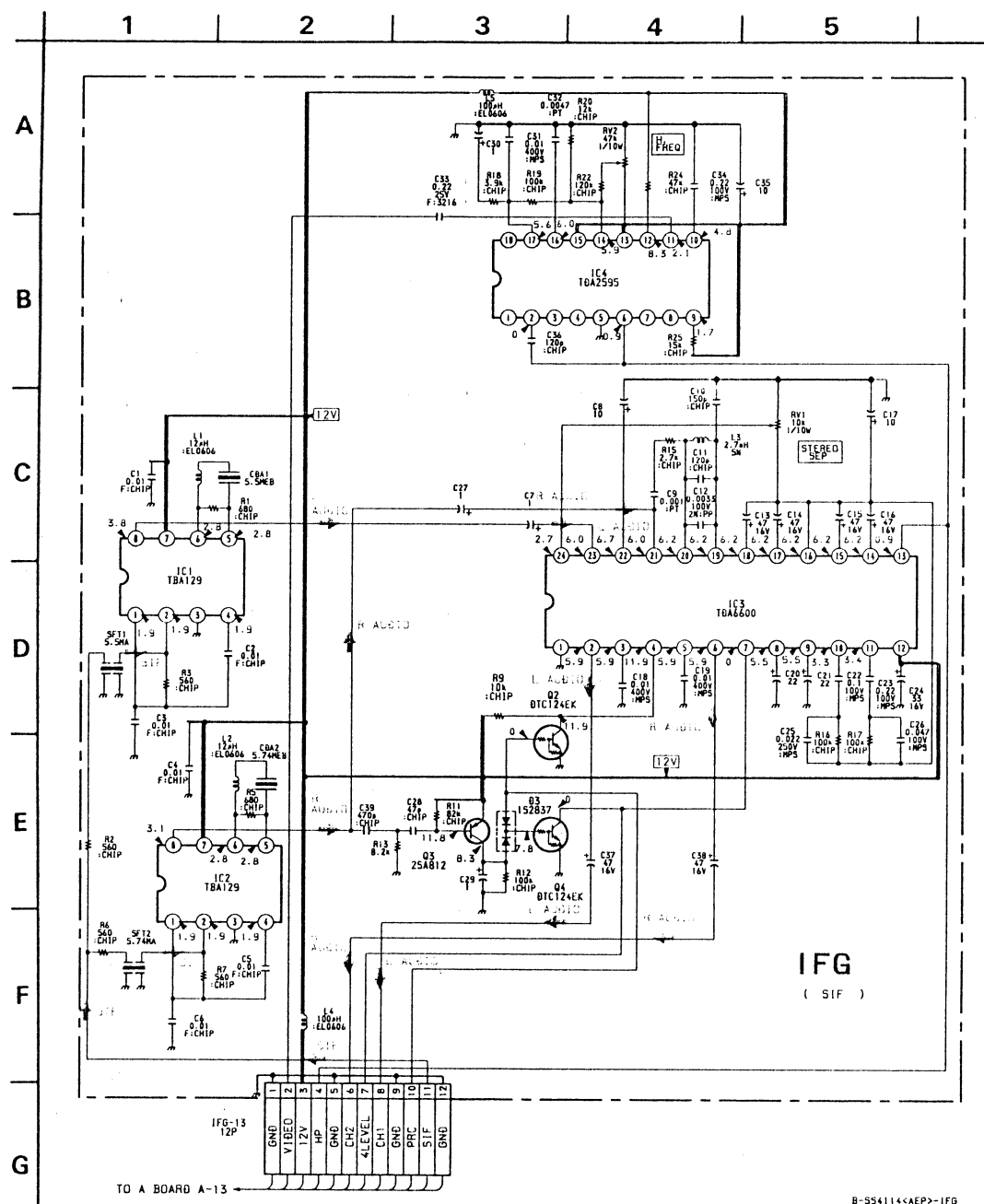
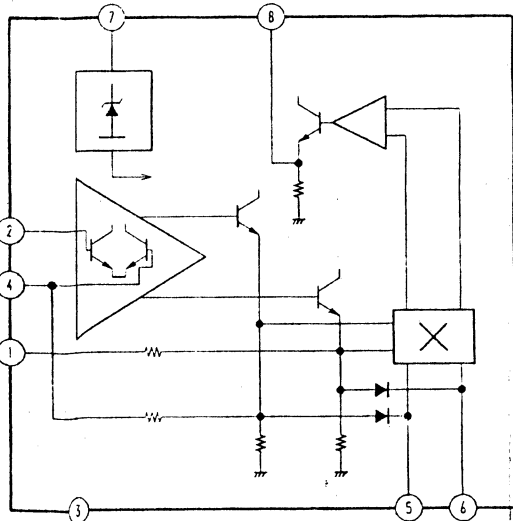
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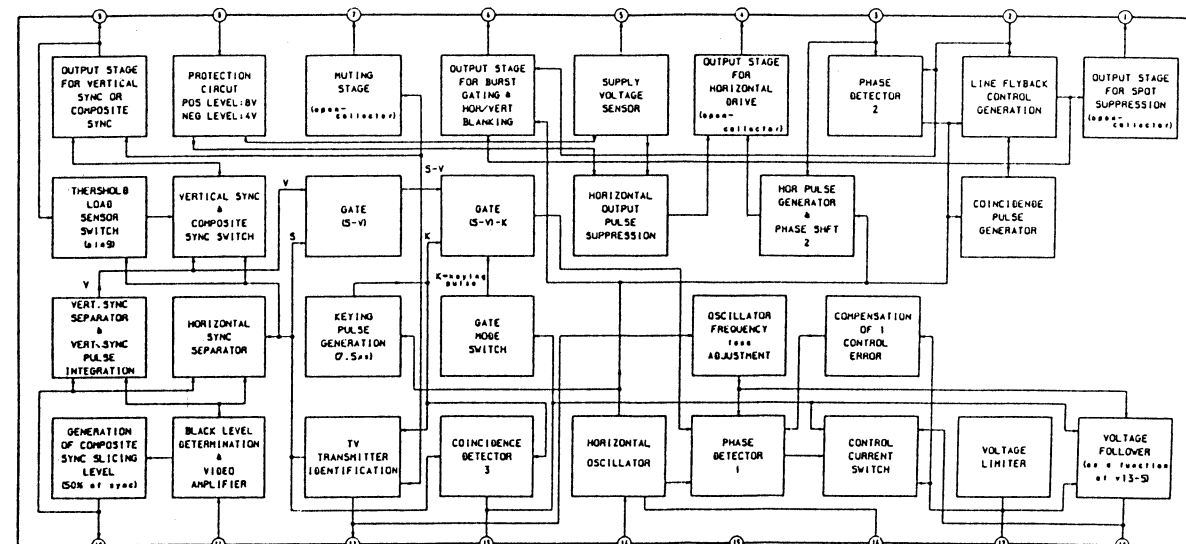
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IFG-5.5S BOARD IC1/2 TBA129



IFG-5.5S BOARD IC4 TDA2595

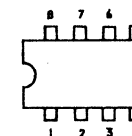
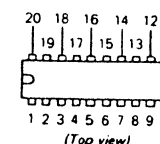


5-4. SEMICONDUCTORS

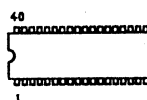
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RC4558P  
SDA2546  
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TDA1543  
TEA2014A  
TEA2031A

SBX1610-11

TDA8732



SDA20560-A012

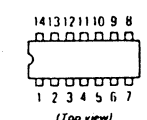


BF871



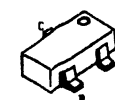
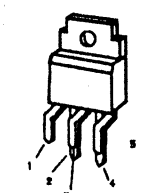
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FCB61C65-70P  
MAB8461P-W208  
SAA7280P/M3  
TC5565APL-15L  
TDA4580-V7  
TDA4650-V4  
TDA6200  
TEA2028B

SN74LS02N



DTA144EK  
DTC114EK  
DTC124EK  
DTC144EK  
2SA1162-G  
2SB1295-UL6  
2SC1623-L5L6

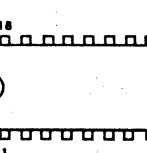
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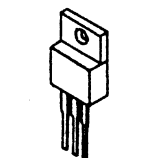
HD14053BFP  
MC14051BCP  
PCF8574  
TDA4660V2  
TDA8442-N3  
TEA2260  
PD4053BC

DTC144ES

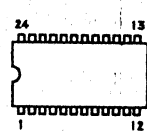
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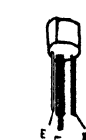
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TEA7605



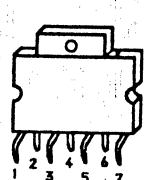
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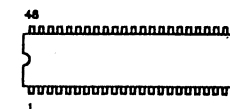
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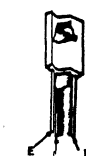
TDA8170



SAA5246P/E/M4A  
SAA5246P/E  
SAA5246P/H



2SA1220A-P  
2SC2688-LK



SECTION 6  
EXPLODED VIEWS

## NOTE:

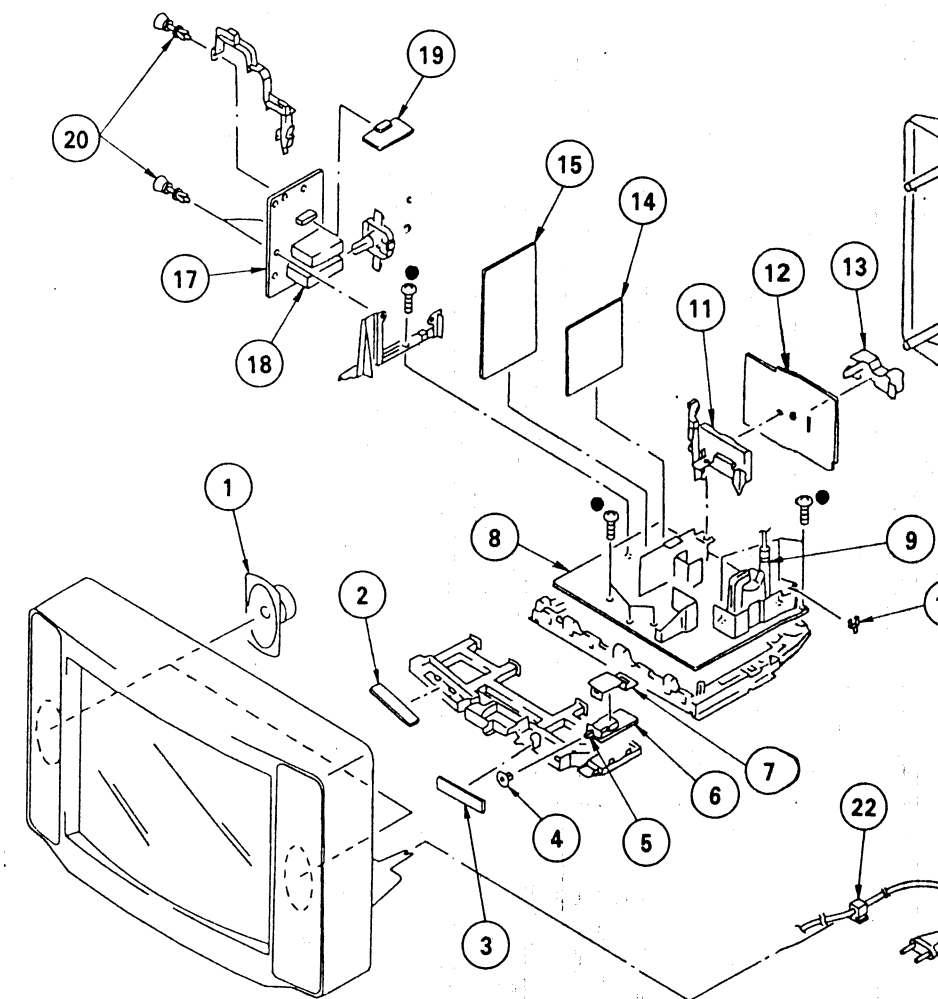
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

## 6-1. CHASSIS (KV-C2161D)

●: BVTP 3 × 12 7-685-648-79

■: BVTP 4 × 16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.
1	1-544-525-11	SPEAKER		12	★A-1651-018-A
2	★1-638-391-11	H1 BOARD		13	4-200-014-01
3	★1-638-392-11	H2 BOARD		14	★A-1645-013-A
4	4-386-611-01	COVER, SWITCH		15	★A-1621-046-A
5	★1-571-433-12	SWITCH, PUSH (AC POWER)		16	4-033-072-01
6	★1-638-390-11	F BOARD		17	★A-1632-022-A
7	4-200-757-01	COVER, POWER SWITCH		18	★1-465-301-11
8	★A-1642-035-A	D BOARD, COMPLETE		19	★A-1654-004-A
9	★1-439-416-51	TRANSFORMER ASSY. FLYBACK (UX-1650)		20	4-386-618-01
10	★3-646-071-00	HOLDER, WIRE		21	★1-590-501-11
11	★4-389-624-11	BRACKET, J		22	★4-389-201-03

732  
14 12  
13 11  
7 8 9 10  
71EK  
EK  
EK  
EK  
G  
UL6  
L5L6EK  
EK  
EK  
EK  
G  
UL6  
L5L6

4ES

31-0  
3-340A-P  
8-LK2SB734-34  
2SD773-34  
2SD774-34

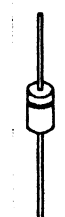
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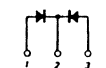
LETTER SIDE

2SD1548-LB  
2SD1941-06

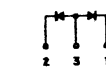
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BB405B  
BB809  
EGP20G  
ERC06-15S  
HZS11NB3TD  
RU-3AM

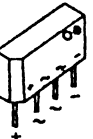
CTU-12S



DAP202K



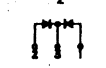
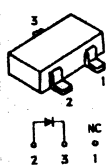
D4SB60L-F



ERD29-08J



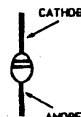
MA152WK

MTZJ-13B  
MTZJ-15A  
MTZJ-3.9B  
MTZJ-33A  
MTZJ-36D  
MTZN-10C  
RD11ES-B3  
RD5.6ESB2  
RD6.2ES-B2  
RD6.8ESB2  
RD7.5ESB2  
RD9.1ESB3  
UZ-4.7BSC  
1SS119RD3.6M-B2  
RD5.6M-B2  
RD6.8M-B2

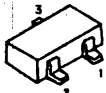
RGP02-17



U05G



1SS226



LD-201VR



## SECTION 6 EXPLODED VIEWS

### NOTE:

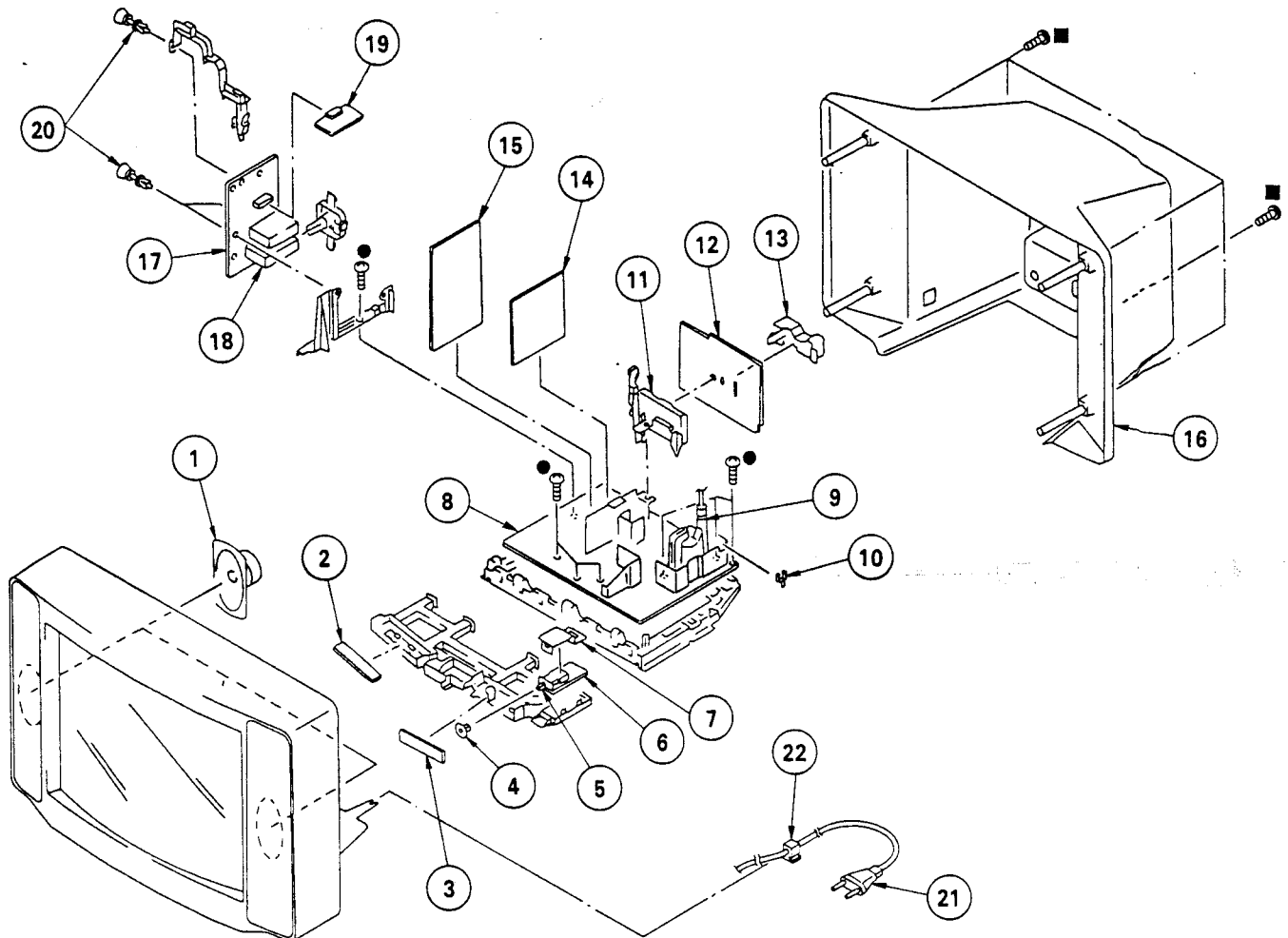
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **▲** are critical for safety.  
Replace only with part number specified.

### 6-1. CHASSIS (KV-C2161D)

●: BVTP 3 × 12 7-685-648-79

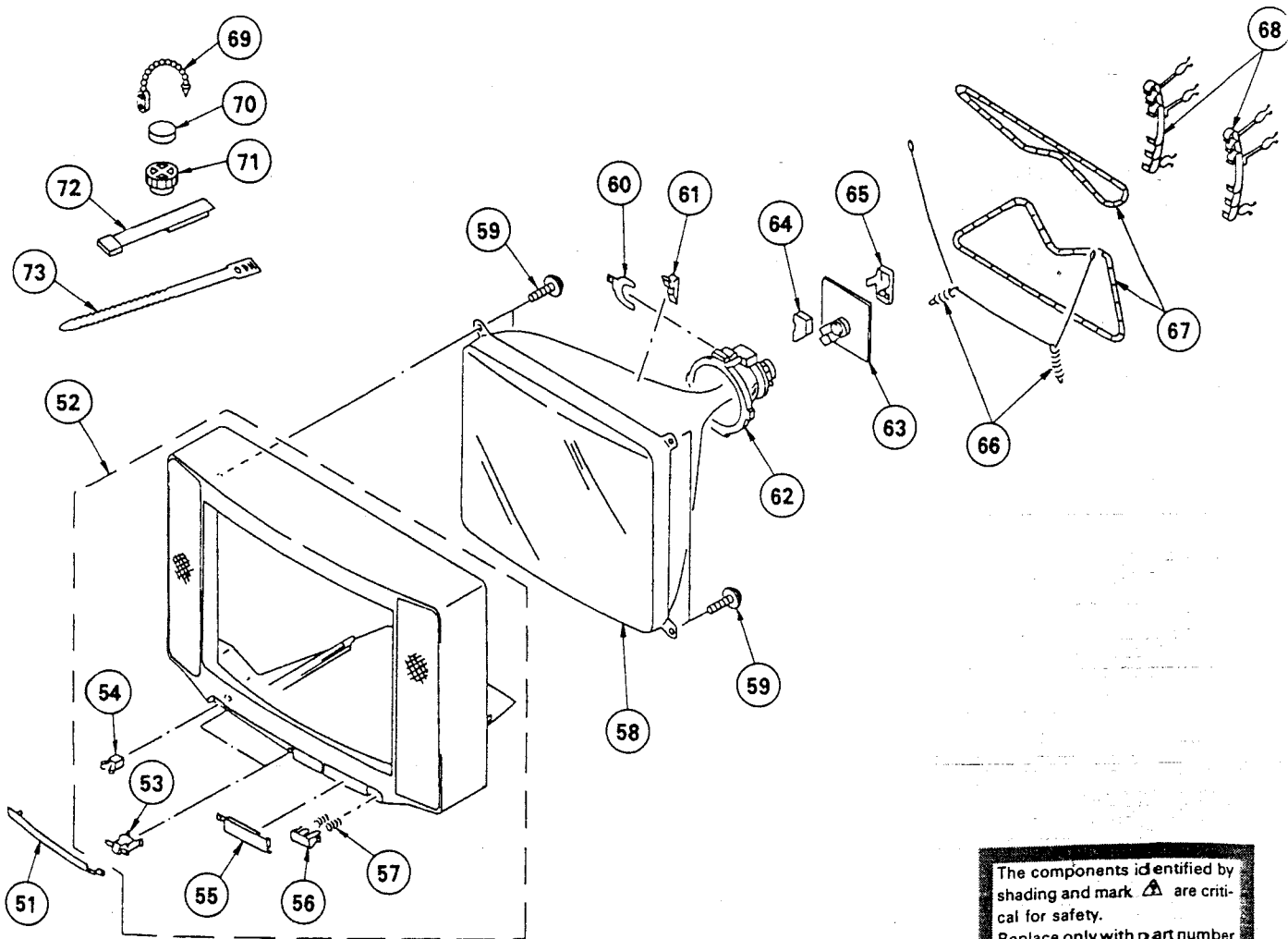
■: BVTP 4 × 16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	1-544-525-11	SPEAKER		12	★A-1651-018-A	J1 BOARD, COMPLETE	
2	★1-638-391-11	H1 BOARD		13	4-200-014-01	BRACKET, TERMINAL	
3	★1-638-392-11	H2 BOARD		14	★A-1645-013-A	V BOARD, COMPLETE	
4	4-386-611-01	COVER, SWITCH		15	★A-1621-046-A	B BOARD, COMPLETE	
5	▲1-571-433-12	SWITCH, PUSH (AC POWER)		16	4-033-072-01	COVER, REAR	
6	★1-638-390-11	F BOARD		17	★A-1632-022-A	A BOARD, COMPLETE	
7	4-200-757-01	COVER, POWER SWITCH		18	▲1-465-301-11	TUNER, ET (UV-816(PLL))	
8	★A-1642-035-A	D BOARD, COMPLETE		19	★A-1654-004-A	IFG BOARD, COMPLETE	
9	▲1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)		20	4-386-618-01	RIVET, T TYPE	
10	★3-646-071-00	HOLDER, WIRE		21	▲1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
11	★4-386-624-11	BRACKET, J		22	▲4-389-201-03	HOLDER, AC CORD	



## 6-2. PICTURE TUBE (KV-C2161D)

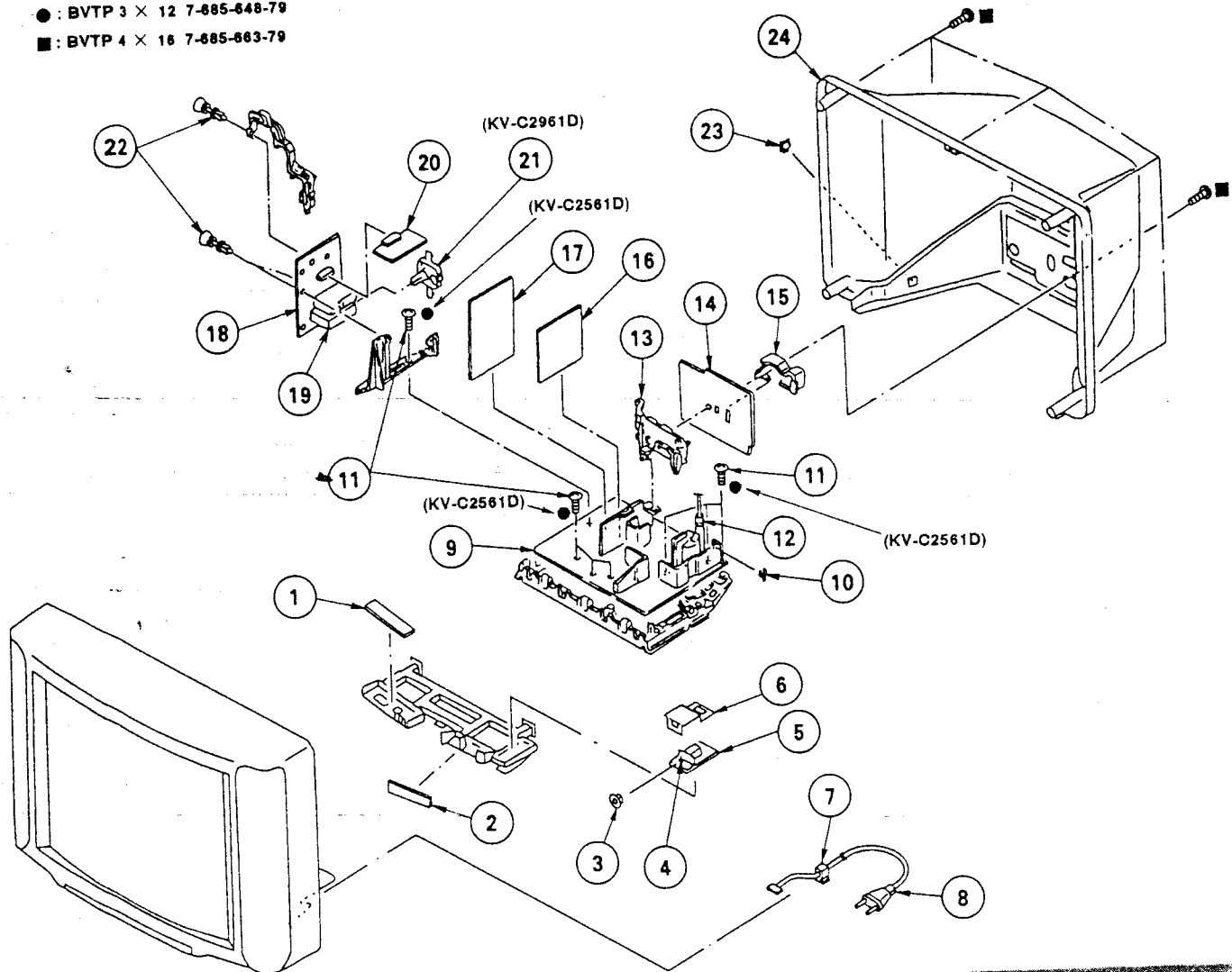


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4029-863-1	DOOR ASSY		63	*A-1638-014-A	C BOARD, COMPLETE	
52	X-4029-864-1	CABINET ASSY (WITH BEZEL ASSY)	53~57	64	*4-379-167-01	COVER (MAIN), CV	
53	3-703-035-11	SHIRT, LID		65	*4-379-160-01	COVER (REAR LID), CV	
54	4-392-036-01	CATCHER, PUSH		66	4-200-433-01	SPRING, EXTENSION	
55	4-032-993-01	WINDOW, ORNAMENTAL		67	Δ 1-426-383-11	COIL, DEMAGNETIZATION	
56	4-032-990-01	BUTTON, POWER		68	*4-386-622-01	BAND, DGC	
57	4-329-112-51	SPRING		69	4-308-870-00	CLIP, LEAD WIRE	
58	Δ 8-738-758-05	PICTURE TUBE (A51JXH61X)		70	1-452-032-00	MAGNET, DISK; 10MM	
59	4-036-189-01	SCREW (S), PT		71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
60	1-452-277-00	MAGNET, BMC		72	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
61	3-704-495-01	SPACER, DY		73	3-701-007-00	BAND, BINDING	
62	Δ 1-451-295-11	DEFLECTION YOKE (Y21PFA2)					

### 6-3. CHASSIS (KV-C2561D/C2961D)

● : BVTP 3 × 12 7-885-848-79

■ : BVTP 4 × 16 7-885-863-79

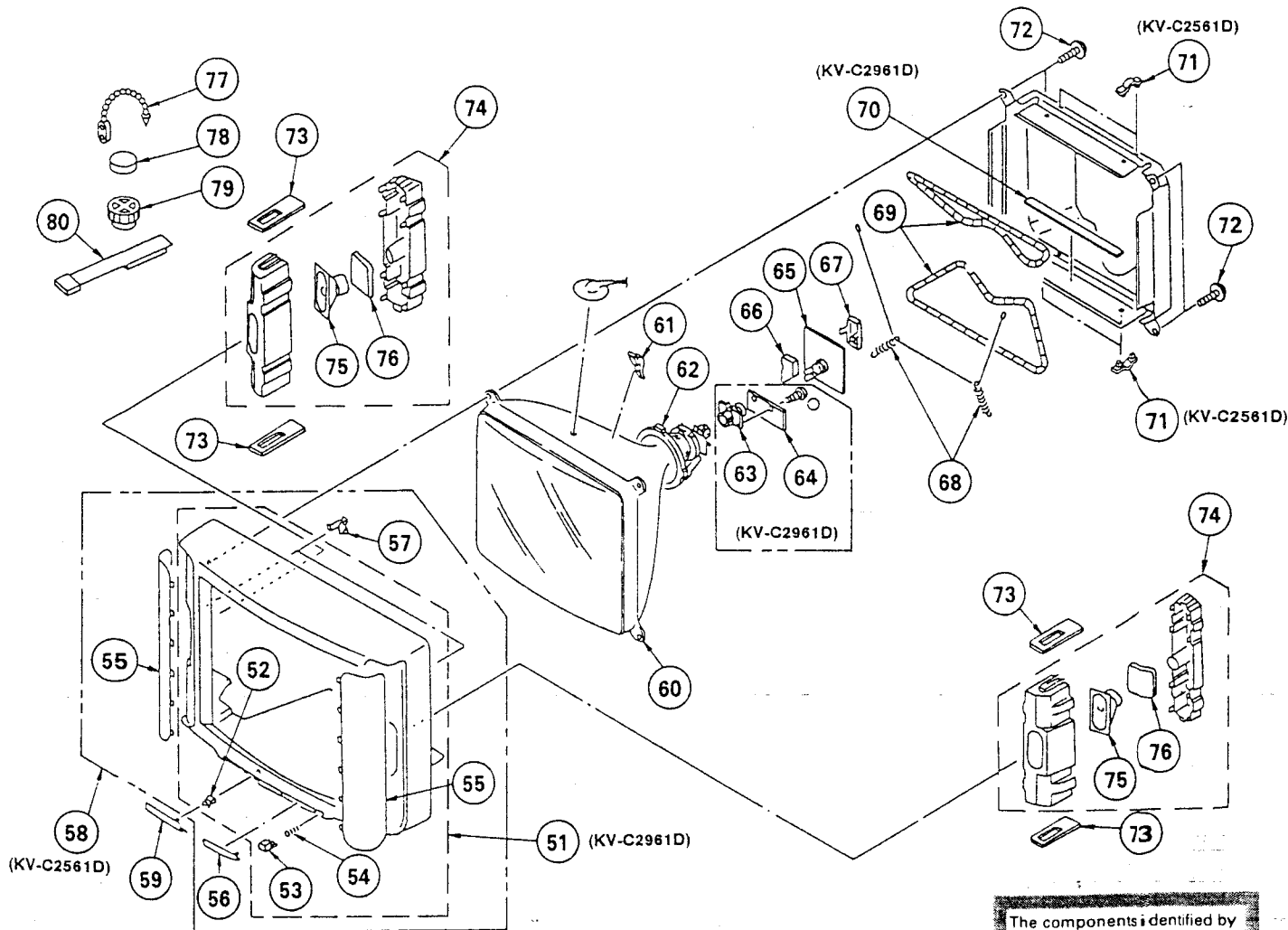


The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-744-11	H1 BOARD (KV-C2561D)		13	*4-386-624-01	BRACKET, J (KV-C2561D)	
	*1-638-391-11	H1 BOARD (KV-C2961D)			*4-386-624-11	BRACKET, J (KV-C2961D)	
2	*1-638-745-11	H2 BOARD (KV-C2561D)		14	*A-1651-023-A	J1 BOARD, COMPLETE (KV-C2561D)	
	*1-638-392-11	H2 BOARD (KV-C2961D)			*A-1651-038-A	J1 BOARD, COMPLETE (KV-C2961D)	
3	4-386-611-11	COVER, SWITCH (KV-C2561D)		15	4-200-014-11	BRACKET, TERMINAL (KV-C2561D)	
	4-386-611-01	COVER, SWITCH (KV-C2961D)			4-200-014-01	BRACKET, TERMINAL (KV-C2961D)	
4	▲ 1-571-433-12	SWITCH, PUSH (AC POWER)		16	*A-1645-022-A	V BOARD, COMPLETE (KV-C2561D)	
5	*1-638-743-11	F BOARD (KV-C2561D)			*A-1645-013-A	V BOARD, COMPLETE (KV-C2961D)	
	*1-638-390-11	F BOARD (KV-C2961D)		17	*A-1621-041-A	B BOARD, COMPLETE (KV-C2561D)	
6	4-200-274-11	COVER, POWER SWITCH (KV-C2561D)			*A-1621-040-A	B BOARD, COMPLETE (KV-C2961D)	
	4-200-952-01	COVER, POWER SWITCH (KV-C2961D)		18	*A-1632-054-A	A BOARD, COMPLETE (KV-C2561D)	
7	▲ 4-389-201-11	HOLDER, AC CORD (KV-C2561D)			*A-1632-094-A	A BOARD, COMPLETE (KV-C2961D)	
	▲ 4-389-201-03	HOLDER, AC CORD (KV-C2961D)		19	▲ 1-465-301-11	TUNER, ET (UV-816(PLL))	
8	▲ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)		20	*A-1654-005-A	IFG BOARD, COMPLETE (KV-C2561D)	
	*A-1642-062-A	D BOARD, COMPLETE (KV-C2561D)			*A-1654-008-A	IFG BOARD, COMPLETE (KV-C2961D)	
	*A-1642-032-A	D BOARD, COMPLETE (KV-C2961D)		21	*4-386-617-01	HOLDER, TERMINAL (KV-C2961D)	
10	*3-646-071-00	HOLDER, WIRE (KV-C2961D)		22	4-386-618-01	RIVET, T TYPE	
11	4-364-802-00	SCREW (3.5X13) (KV-C2961D)		23	4-202-035-01	COVER, TERMINAL (KV-C2561D)	
12	▲ 1-439-416-41	TRANSFORMER ASSY, FLYBACK (NX-1604) (KV-C2561D)			4-202-004-01	COVER, TERMINAL (KV-C2961D)	
	▲ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650) (KV-C2961D)		24	4-202-032-01	COVER, REAR (KV-C2561D)	
					4-202-014-01	COVER, REAR (KV-C2961D)	

## 6-4. PICTURE TUBE (KV-C2561D/C2961D)

○ : BVTP 3 × 8 7-685-646-79



The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4200-098-1	CABINET ASSY (WITH BEZEL ASSY)	52-54 (KV-C2961D)	64	*1-634-193-11	VM BOARD (KV-C2961D)	
52	4-392-036-01	CATCHER, PUSH		65	*A-1638-015-A	C BOARD, COMPLETE (KV-C2561D)	
53	4-202-022-01	BUTTON, POWER (KV-C2561D)			*A-1638-013-A	C BOARD, COMPLETE (KV-C2961D)	
	4-200-991-01	BUTTON, POWER (KV-C2961D)		66	*4-379-167-01	COVER (MAIN), CV	
54	4-329-112-00	SPRING (KV-C2561D)		67	*4-379-160-01	COVER (REAR LID), CV	
	4-329-112-41	SPRING (KV-C2961D)		68	4-303-774-99	SPRING (KV-C2561D)	
55	X-4200-101-1	PLATE ASSY, ORNAMENTAL (KV-C2561D)			4-369-318-00	SPRING, TENSION (KV-C2961D)	
	X-4200-099-1	PLATE ORNAMENTAL ASSY (KV-C2961D)		69	$\Delta$ 1-426-372-11	COIL, DEMAGNETIZATION (KV-C2561D)	
56	4-202-020-01	WINDOW, ORNAMENTAL (KV-C2561D)			$\Delta$ 1-426-398-11	COIL, DEMAGNETIZATION (KV-C2961D)	
	4-200-989-01	WINDOW, ORNAMENTAL (KV-C2961D)		70	3-651-853-01	CUSHION (KV-C2961D)	
57	4-202-023-01	CLIP, CONTACT (KV-C2561D)		71	*4-385-916-01	HOLDER (D) (KV-C2561D)	
	4-200-992-01	CLIP, CONTACT (KV-C2961D)		72	4-373-263-11	SCREW (M), PT (KV-C2561D)	
58	X-4200-100-1	CABINET ASSY (WITH BEZEL ASSY)	52-57 (KV-C2561D)		4-200-976-01	SCREW, PT (KV-C2961D)	
59	4-202-021-01	DOOR (KV-C2561D)		73	4-202-027-01	CUSHION, BOX (KV-C2561D)	
	4-200-990-01	DOOR (KV-C2961D)			4-200-995-01	CUSHION, BOX (KV-C2961D)	
60	$\Delta$ 8-733-231-05	PICTURE TUBE (A59JWC61X) (KV-C2561D)		74	A-1678-036-A	BOX COMPLETE ASSY (KV-C2561D)	75, 76
	$\Delta$ 8-733-831-05	PICTURE TUBE (A68JYL61X) (KV-C2961D)			A-1678-048-A	BOX ASSY (KV-C2961D)	75, 76
61	3-704-495-01	SPACER, DY		75	1-504-146-11	SPEAKER (5X11CM)	
62	$\Delta$ 1-451-311-21	DEFLECTION YOKE (Y25FXA) (KV-C2561D)		76	4-202-029-01	STOPPER (KV-C2561D)	
	$\Delta$ 1-451-313-21	DEFLECTION YOKE (Y29FXA) (KV-C2961D)			4-200-999-01	STOPPER (KV-C2961D)	
63	$\Delta$ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)	(KV-C2961D)	77	4-308-870-00	CLIP, LEAD WIRE	
				78	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
				79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
				80	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	

SECTION 7  
ELECTRICAL PARTS LIST**B**

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety.

Replace only with part number specified.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

## CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ F

## COILS

• MMH : mH, UH :  $\mu$ H

## RESISTORS


• All resistors are in ohms  
• F : nonflammable

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1621-046-A	B BOARD, COMPLETE (KV-C2161D) *****		C345	1-163-123-00	CERAMIC CHIP 180PF	5% 50V
	*A-1621-041-A	B BOARD, COMPLETE (KV-C2561D) *****		C346	1-163-033-00	CERAMIC CHIP 0.022MF	50V
	*A-1621-040-A	B BOARD, COMPLETE (KV-C2961D) *****		C347	1-124-903-11	ELECT 1MF	20% 50V
				C348	1-124-903-11	ELECT 1MF	20% 50V
				C349	1-163-031-11	CERAMIC CHIP 0.01MF	50V
<CONNECTOR>				C350	1-163-031-11	CERAMIC CHIP 0.01MF	50V
B72	*1-568-881-51	PIN, CONNECTOR 6P		C351	1-137-102-11	FILM 0.022MF	10% 250V
B73	*1-568-878-51	PIN, CONNECTOR 3P (KV-C2961D)		C352	1-137-102-11	FILM 0.022MF	10% 250V
B31	*1-565-393-11	CONNECTOR, BOARD TO BOARD		C353	1-163-063-00	CERAMIC CHIP 0.022MF	10% 50V
B32	*1-565-393-11	CONNECTOR, BOARD TO BOARD		C354	1-124-910-11	ELECT 47MF	20% 50V
B33	*1-565-393-11	CONNECTOR, BOARD TO BOARD		C357	1-163-377-11	CERAMIC CHIP 100PF	5% 50V
				C358	1-124-917-11	ELECT 33MF	20% 50V
				C359	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
				C360	1-101-004-00	CERAMIC 0.01MF	50V
				C364	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
<CAPACITOR>				C365	1-124-910-11	ELECT 47MF	20% 50V
C301	1-137-031-11	FILM 0.22MF	10% 100V	C366	1-126-103-11	ELECT 470MF	20% 16V
C302	1-137-031-11	FILM 0.22MF	10% 100V	C367	1-101-004-00	CERAMIC 0.01MF	50V
C303	1-124-122-11	ELECT 100MF	20% 50V	C381	1-124-902-00	ELECT 0.47MF	20% 50V
C304	1-137-031-11	FILM 0.22MF	10% 100V	C382	1-124-927-11	ELECT 4.7MF	20% 50V
C305	1-124-119-00	ELECT 330MF	20% 16V	C384	1-124-910-11	ELECT 47MF	20% 50V
C306	1-124-902-00	ELECT 0.47MF	20% 50V	C385	1-124-927-11	ELECT 4.7MF	20% 50V
C307	1-124-902-00	ELECT 0.47MF	20% 50V	C386	1-124-927-11	ELECT 4.7MF	20% 50V
C308	1-124-902-00	ELECT 0.47MF	20% 50V	C387	1-137-027-11	FILM 0.82MF	10% 63V
C309	1-124-902-00	ELECT 0.47MF	20% 50V	C388	1-137-098-11	FILM 0.1MF	10% 100V
C310	1-137-098-11	FILM 0.1MF	10% 100V	C401	1-101-361-00	CERAMIC 150PF	5% 50V
C311	1-137-098-11	FILM 0.1MF	10% 100V	C402	1-163-197-00	CERAMIC CHIP 470PF	5% 50V
C312	1-124-902-00	ELECT 0.47MF	20% 50V	C403	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V
C313	1-124-902-00	ELECT 0.47MF	20% 50V	C1311	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C314	1-124-902-00	ELECT 0.47MF	20% 50V				
C315	1-124-903-11	ELECT 1MF	20% 50V				
C316	1-137-098-11	FILM 0.1MF	10% 100V		1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C317	1-124-910-11	ELECT 47MF	20% 50V				
C318	1-137-098-11	FILM 0.1MF	10% 100V	C1312	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C321	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C1313	1-102-953-00	CERAMIC 18PF	5% 50V
			(KV-C2161D, C2561D)				
C323	1-102-947-00	CERAMIC 10PF	0.5PF 50V	<TRIMMER>			
C327	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V	CT331	1-141-418-11	CAP, ADJ (KV-C2161D, C2961D)	
C330	1-163-113-00	CERAMIC CHIP 68PF	5% 50V		1-141-181-11	CAP, TRIMMER (KV-C2561D)	
C331	1-137-098-11	FILM 0.1MF	10% 100V	CT332	1-141-418-11	CAP, ADJ (KV-C2161D, C2961D)	
C332	1-126-103-11	ELECT 470MF	20% 16V		1-141-181-11	CAP, TRIMMER (KV-C2561D)	
C333	1-137-102-11	FILM 0.022MF	10% 250V	<DIODE>			
C334	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	D301	8-719-911-19	DIODE 1SS119	
C335	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	D302	8-719-911-19	DIODE 1SS119	
C336	1-102-816-00	CERAMIC 120PF	5% 50V	D303	8-719-911-19	DIODE 1SS119	
C337	1-101-004-00	CERAMIC 0.01MF	5% 50V	D304	8-719-911-19	DIODE 1SS119	
C338	1-137-098-11	FILM 0.1MF	10% 100V	D305	8-719-911-19	DIODE 1SS119	
C339	1-137-098-11	FILM 0.1MF	10% 100V	D307	8-719-110-23	DIODE RD11ES-B3	
C341	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	D309	8-719-911-19	DIODE 1SS119	
C343	1-137-094-11	FILM 0.047MF	10% 100V				
C344	1-137-033-11	FILM 0.33MF	10% 100V				

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D310	8-719-110-23	DIODE RD11ES-B3		<RESISTOR>			
D311	8-719-110-23	DIODE RD11ES-B3		JR385	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W
D312	8-719-110-23	DIODE RD11ES-B3		JR387	1-216-295-00	METAL GLAZE 0 5%	1/10W (KV-C2961D)
D313	8-719-911-19	DIODE ISS119		JR390	1-216-295-00	METAL GLAZE 0 5%	1/10W (KV-C2161D, C2561D)
D314	8-719-911-19	DIODE ISS119		R301	1-249-409-11	CARBON 220 5%	1/4W
D315	8-719-911-19	DIODE ISS119		R302	1-249-409-11	CARBON 220 5%	1/4W
D316	8-719-911-19	DIODE ISS119		R303	1-249-409-11	CARBON 220 5%	1/4W
D317	8-719-911-19	DIODE ISS119		R304	1-249-409-11	CARBON 220 5%	1/4W
D318	8-719-911-19	DIODE ISS119		R305	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D319	8-719-911-19	DIODE ISS119		R307	1-216-097-00	METAL GLAZE 100K 5%	1/10W
D320	8-719-911-19	DIODE ISS119		R308	1-216-296-00	METAL GLAZE 0 5%	1/8W
D331	8-719-911-19	DIODE ISS119		R309	1-216-025-00	METAL GLAZE 100 5%	1/10W
D332	8-719-911-19	DIODE ISS119		R310	1-216-025-00	METAL GLAZE 100 5%	1/10W
D333	8-719-911-19	DIODE ISS119		R311	1-216-025-00	METAL GLAZE 100 5%	1/10W
D350	8-719-109-89	DIODE RD5.6ES-B2		R312	1-249-409-11	CARBON 220 5%	1/4W
<DELAY LINE>				R313	1-216-081-00	METAL GLAZE 22K 5%	1/10W
DL332	1-236-062-11	MODULE, Y DELAY LINE		R314	1-216-182-00	METAL GLAZE 220 5%	1/8W
DL401	1-415-613-11	DELAY LINE, Y		R315	1-216-031-00	METAL GLAZE 180 5%	1/10W
<IC>				R316	1-216-031-00	METAL GLAZE 180 5%	1/10W
IC301	8-759-517-43	IC TDA4580-V7		R317	1-216-031-00	METAL GLAZE 180 5%	1/10W
IC302	8-759-980-60	IC TDA8442N3		R318	1-249-429-11	CARBON 10K 5%	1/4W
IC303	8-759-140-53	IC UPD4053BC		R319	1-249-409-11	CARBON 220 5%	1/4W
IC331	8-759-521-22	IC TDA4650/V4		R320	1-216-198-00	METAL GLAZE 1K 5%	1/8W
IC332	8-759-505-39	IC TDA4660V2		R321	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC1301	1-235-534-11	CONTROL MODULE, PICTURE (KV-C2961D)		R322	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<COIL>				R328	1-216-311-00	METAL GLAZE 6.8 5%	1/10W
L301	1-410-868-11	INDUCTOR 4.7UH		R329	1-216-311-00	METAL GLAZE 6.8 5%	1/10W
L302	1-410-868-11	INDUCTOR 4.7UH		R330	1-216-311-00	METAL GLAZE 6.8 5%	1/10W
L303	1-408-406-00	INDUCTOR 5.6UH (KV-C2161D, C2561D)		R331	1-216-001-00	METAL GLAZE 10 5%	1/10W
L331	1-404-554-11	COIL		R332	1-216-184-00	METAL GLAZE 270 5%	1/8W
L336	1-404-554-11	COIL		R333	1-216-121-00	METAL GLAZE 1W 5%	1/10W
L338	1-408-409-00	INDUCTOR 10UH		R334	1-216-073-00	METAL GLAZE 10K 5%	1/10W
L1301	1-408-425-00	INDUCTOR 220UH		R335	1-247-852-11	CARBON 7.5K 5%	1/4W
L1302	1-408-419-00	INDUCTOR 68UH		R336	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
<TRANSISTOR>				R337	1-216-184-00	METAL GLAZE 270 5%	1/8W
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R338	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R339	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q305	8-729-901-06	TRANSISTOR DTA144EK		R341	1-216-031-00	METAL GLAZE 180 5%	1/10W
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE		R342	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q311	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R344	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q312	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q346	1-216-202-00	METAL GLAZE 1.5K 5%	1/8W
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R347	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R348	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q330	8-729-216-22	TRANSISTOR 2SA1162-G		R349	1-216-045-00	METAL GLAZE 680 5%	1/10W (KV-C2161D, C2561D)
Q331	8-729-901-00	TRANSISTOR DTC124EK		R350	1-216-045-00	METAL GLAZE 680 5%	1/10W (KV-C2161D, C2561D)
Q332	8-729-216-22	TRANSISTOR 2SA1162-G		R351	1-216-033-00	METAL GLAZE 220 5%	1/10W (KV-C2161D, C2561D)
Q333	8-729-216-22	TRANSISTOR 2SA1162-G		R354	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q334	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R355	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q335	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R356	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q381	8-729-901-00	TRANSISTOR DTC124EK		R357	1-216-033-00	METAL GLAZE 220 5%	1/10W (KV-C2961D)
Q382	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R358	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q1301	8-729-901-00	TRANSISTOR DTC124EK		R359	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (KV-C2961D)		R360	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R361	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
				R363	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W

RM-816

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

B	F	A
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[illegible]

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-C2161D/C2561D/C2961D  
RM-816

A IFB

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<IC>				<IF BLOCK>			
IC103	8-759-979-62	IC PCF8574		VIF101	1-466-154-11	IF BLOCK (IFG-389S)	
<COIL>				1-466-154-11 IFB BOARD (IF BLOCK IFG-389S)			
L100	1-410-683-31	INDUCTOR	560UH	<CAPACITOR>			
L101	1-408-225-00	INDUCTOR	3.3UH	C9	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
L102	1-408-413-00	INDUCTOR	22UH	C10	1-124-925-11	ELECT 2.2MF	20% 50V
L107	1-408-397-00	INDUCTOR	1UH	C11	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
<TRANSISTOR>				C12	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C13	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C14	1-124-034-51	ELECT 33MF	20% 16V
Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C17	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
Q116	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C18	1-163-107-00	CERAMIC CHIP 39PF	5% 50V
Q125	8-729-900-89	TRANSISTOR DTC144ES		C19	1-126-176-11	ELECT 220MF	20% 10V
Q126	8-729-901-06	TRANSISTOR DTA144EK		C20	1-123-382-00	ELECT 3.3MF	20% 50V
Q181	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C21	1-163-031-11	CERAMIC CHIP 0.01MF	50V
<RESISTOR>				C22	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
JR230	1-216-295-00	METAL GLAZE	0 5% 1/10W	C23	1-130-475-00	MYLAR 0.0022MF	5% 50V
JR252	1-216-296-00	METAL GLAZE	0 5% 1/8W	C24	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
JR253	1-216-296-00	METAL GLAZE	0 5% 1/8W	C25	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
JR255	1-216-296-00	METAL GLAZE	0 5% 1/8W	C28	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
JR256	1-216-296-00	METAL GLAZE	0 5% 1/8W	C29	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
JR257	1-216-296-00	METAL GLAZE	0 5% 1/8W	C30	1-124-034-51	ELECT 33MF	20% 16V
JR258	1-216-296-00	METAL GLAZE	0 5% 1/8W	C31	1-163-085-00	CERAMIC CHIP 2PF	0.25PF 50V
R101	1-216-025-00	METAL GLAZE	100 5% 1/10W	C32	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
R105	1-216-079-00	METAL GLAZE	18K 5% 1/10W	C33	1-124-902-00	ELECT 0.47MF	20% 50V
R107	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C34	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
R108	1-216-079-00	METAL GLAZE	18K 5% 1/10W	C35	1-124-034-51	ELECT 33MF	20% 16V
R110	1-249-429-11	CARBON	10K 5% 1/4W	<FILTER>			
R111	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	CF1	1-404-801-11	TRAP, CERAMIC	
R116	1-216-023-00	METAL GLAZE	82 5% 1/10W	<CONNECTOR>			
R118	1-216-085-00	METAL GLAZE	33K 5% 1/10W	CN1	*1-506-913-11	PIN, CONNECTOR 10P	
R128	1-216-027-00	METAL GLAZE	120 5% 1/10W	<IC>			
R129	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	IC1	8-759-996-04	IC TDA8341/N6	
R130	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	IC2	8-759-516-81	IC TDA2545A-V4	
R157	1-216-049-00	METAL GLAZE	1K 5% 1/10W	<COIL>			
R158	1-249-409-11	CARBON	220 5% 1/4W	L2	1-408-410-00	INDUCTOR	12UH
R159	1-249-409-11	CARBON	220 5% 1/4W	L3	1-408-406-00	INDUCTOR	5.6UH
R161	1-216-089-00	METAL GLAZE	47K 5% 1/10W	L4	1-408-407-00	INDUCTOR	6.8UH
R162	1-216-095-00	METAL GLAZE	82K 5% 1/10W	L6	1-408-397-00	INDUCTOR	1UH
R163	1-216-095-00	METAL GLAZE	82K 5% 1/10W	L7	1-408-406-00	INDUCTOR	5.6UH
R164	1-216-075-00	METAL GLAZE	12K 5% 1/10W	L8	1-408-406-00	INDUCTOR	5.6UH
R165	1-216-075-00	METAL GLAZE	12K 5% 1/10W	<TRANSISTOR>			
R167	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	Q1	8-729-920-74	TRANSISTOR 2SC2412K-QR	
R168	1-216-089-00	METAL GLAZE	47K 5% 1/10W	Q2	8-729-920-74	TRANSISTOR 2SC2412K-QR	
R169	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	Q7	8-729-216-22	TRANSISTOR 2SA1162-G	
R181	1-216-049-00	METAL GLAZE	1K 5% 1/10W	<TUNER>			
R182	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	TU101A	1-465-301-11	TUNER, ET (UV-816(PLL))	
R193	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R194	1-216-017-00	METAL GLAZE	47 5% 1/10W				
R195	1-216-017-00	METAL GLAZE	47 5% 1/10W				
R196	1-216-113-00	METAL GLAZE	470K 5% 1/10W				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>							
JC1	1-216-296-00	METAL GLAZE	0 5% 1/8W	C717	1-102-114-00	CERAMIC	470PF 10% 50V
R9	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	C718	1-102-114-00	CERAMIC	470PF 10% 50V
R10	1-216-029-00	METAL GLAZE	150 5% 1/10W	C719	1-102-114-00	CERAMIC	470PF 10% 50V
R11	1-216-049-00	METAL GLAZE	1K 5% 1/10W	<DIODE>			
R12	1-216-049-00	METAL GLAZE	1K 5% 1/10W	D701	8-719-110-14	DIODE RD9.1ES-B3	
R13	1-216-041-00	METAL GLAZE	470 5% 1/10W	D702	8-719-911-19	DIODE 1SS119	
R15	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	D703	8-719-911-19	DIODE 1SS119	
R16	1-216-045-00	METAL GLAZE	680 5% 1/10W	D704	8-719-911-19	DIODE 1SS119	
R17	1-216-077-00	METAL GLAZE	15K 5% 1/10W	D705	8-719-911-19	DIODE 1SS119	
R18	1-216-043-00	METAL GLAZE	560 5% 1/10W	D706	8-719-911-19	DIODE 1SS119	
R19	1-216-049-00	METAL GLAZE	1K 5% 1/10W	D707	8-719-911-19	DIODE 1SS119	
R20	1-216-045-00	METAL GLAZE	680 5% 1/10W	D708	8-719-911-19	DIODE 1SS119	
R21	1-216-295-00	METAL GLAZE	0 5% 1/10W	D709	8-719-911-19	DIODE 1SS119	
R22	1-216-093-00	METAL GLAZE	68K 5% 1/10W	D710	8-719-911-19	DIODE 1SS119	
R23	1-216-031-00	METAL GLAZE	180 5% 1/10W	D711	8-719-300-33	DIODE RU-3AM	
R24	1-216-081-00	METAL GLAZE	22K 5% 1/10W	D713	8-719-911-19	DIODE 1SS119	
R30	1-216-081-00	METAL GLAZE	22K 5% 1/10W	<JACK>			
R31	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W	J701	1-526-990-11	SOCKET, PICTURE TUBE	
<VARIABLE RESISTOR>				<COIL>			
RV1	1-238-550-11	RES, ADJ, CARBON 100K		L704	1-408-415-00	INDUCTOR	33UH
<TRANSFORMER>				<TRANSISTOR>			
T1	1-404-493-31	COIL		Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
T2	1-404-493-31	COIL		Q703	8-729-906-70	TRANSISTOR BF871	
T5	1-404-493-31	COIL		Q704	8-729-200-17	TRANSISTOR 2SA1091-0	
*****				Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE	
*A-1638-014-A	C BOARD, COMPLETE (KV-C2161D)			Q706	8-729-906-70	TRANSISTOR BF871	
*A-1638-015-A	C BOARD, COMPLETE (KV-C2561D)			Q707	8-729-200-17	TRANSISTOR 2SA1091-0	
*A-1638-013-A	C BOARD, COMPLETE (KV-C2961D)			Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE	
*4-379-160-01	COVER (REAR LID), CV			Q709	8-729-906-70	TRANSISTOR BF871	
*4-379-167-01	COVER (MAIN), CV			Q710	8-729-200-17	TRANSISTOR 2SA1091-0	
<CONNECTOR>				<RESISTOR>			
C71	*1-506-371-00	PIN, CONNECTOR 2P		R704	1-216-486-00	METAL OXIDE	8.2K 5% 3W F
C72	*1-568-881-51	PIN, CONNECTOR 6P		R705	1-202-824-00	SOLID	3.3K 10% 1/2W
C81	*1-568-878-51	PIN, CONNECTOR 3P		R706	1-249-409-11	CARBON	220 5% 1/4W
C82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R707	1-247-822-11	CARBON	430 5% 1/4W
<CAPACITOR>				(KV-C2161D)			
C703	1-102-980-00	CERAMIC	270PF 5% 50V		1-249-412-11	CARBON	390 5% 1/4W
C704	1-102-116-00	CERAMIC	680PF 10% 50V				(KV-C2561D, C2961D)
C705	1-102-976-00	CERAMIC	180PF 5% 50V	R708	1-249-401-11	CARBON	47 5% 1/4W
	1-102-978-00	CERAMIC	220PF 5% 50V	R709	1-202-844-00	SOLID	330K 10% 1/2W
			(KV-C2161D)	R710	1-215-469-00	METAL	100K 1% 1/4W
			(KV-C2561D, C2961D)		1-215-465-00	METAL	68K 1% 1/4W
C706	1-102-116-00	CERAMIC	680PF 10% 50V				(KV-C2561D, C2961D)
C707	1-162-116-00	CERAMIC	680PF 10% 2KV	R711	1-249-426-11	CARBON	5.6K 5% 1/4W
C708	1-162-114-00	CERAMIC	0.0047MF 10% 50V	R712	1-249-417-11	CARBON	1K 5% 1/4W
C709	1-102-116-00	CERAMIC	680PF 10% 50V	R713	1-215-474-00	METAL	160K 1% 1/4W
					1-215-471-00	METAL	120K 1% 1/4W
C710	1-123-947-00	ELECT	10MF 20% 250V				(KV-C2561D, C2961D)
C711	1-101-880-00	CERAMIC	47PF 5% 50V	R714	1-216-486-00	METAL OXIDE	8.2K 5% 3W F
C712	1-102-980-00	CERAMIC	270PF 5% 50V	R715	1-202-824-00	SOLID	3.3K 10% 1/2W
C714	1-124-360-00	ELECT	1000MF 20% 16V	R716	1-249-409-11	CARBON	220 5% 1/4W
C716	1-162-622-11	CERAMIC	330PF 10% 400V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R717	1-249-415-11	CARBON	680 5% 1/4W	C023	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R718	1-202-814-11	SOLID	33K 20% 1/2W	C024	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R719	1-249-401-11	CARBON	47 5% 1/4W	C027	1-124-910-11	ELECT 47MF	20% 50V
R720	1-249-423-11	CARBON	3.3K 5% 1/4W	C030	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R721	1-202-842-11	SOLID	220K 20% 1/2W				
R722	1-202-848-00	SOLID	680K 10% 1/2W	C031	1-163-081-00	CERAMIC CHIP 0.22MF	25V
R723	1-249-417-11	CARBON	1K 5% 1/4W	C032	1-163-081-00	CERAMIC CHIP 0.22MF	25V
R724	1-202-846-00	SOLID	470K 20% 1/2W	C033	1-163-181-00	CERAMIC CHIP 100PF	5% 50V
R725	1-202-838-00	SOLID	100K 20% 1/2W	C034	1-124-907-11	ELECT 10MF	20% 50V
R726	1-202-824-00	SOLID	3.3K 10% 1/2W	C251	1-124-903-11	ELECT 1MF	20% 50V
R727	1-249-409-11	CARBON	220 5% 1/4W	C252	1-126-233-11	ELECT 22MF	20% 50V
R728	1-216-347-11	METAL OXIDE	0.68 5% 1W	C253	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R729	1-249-416-11	CARBON	820 5% 1/4W	C254	1-137-098-11	FILM 0.1MF	10% 100V
R730	1-249-401-11	CARBON	47 5% 1/4W	C255	1-124-636-00	ELECT 3300MF	20% 25V
R731	1-249-423-11	CARBON	3.3K 5% 1/4W	C261	1-124-903-11	ELECT 1MF	20% 50V
R732	1-249-415-11	CARBON	680 5% 1/4W	C262	1-126-233-11	ELECT 22MF	20% 50V
R733	1-249-415-11	CARBON	680 5% 1/4W	C263	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R734	1-249-405-11	CARBON	100 5% 1/4W	C264	1-137-098-11	FILM 0.1MF	10% 100V
R735	1-215-493-00	METAL	1M 1% 1/4W	C265	1-124-564-11	ELECT 4700MF	20% 25V
R736	1-216-486-00	METAL OXIDE	8.2K 5% 3W	C270	1-137-035-11	FILM 0.47MF	10% 100V
R737	1-215-483-00	METAL	390K 1% 1/4W	C274	1-137-035-11	FILM 0.47MF	10% 100V
			(KV-C2161D)	C501	1-124-927-11	ELECT 4.7MF	20% 50V
	1-215-491-00	METAL	820K 1% 1/4W	C502	1-124-927-11	ELECT 4.7MF	20% 50V
			(KV-C2561D)	C503	1-137-049-11	FILM 0.015MF	10% 400V
	1-215-485-00	METAL	470K 1% 1/4W	C504	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
			(KV-C2961D)	C505	1-108-794-11	MYLAR 0.0015MF	5% 50V
R739	1-249-417-11	CARBON	1K 5% 1/4W	C506	1-137-102-11	FILM 0.022MF	10% 250V
				C507	1-137-033-11	FILM 0.33MF	10% 100V
				C508	1-137-102-11	FILM 0.022MF	10% 250V
				C509	1-137-098-11	FILM 0.1MF	10% 100V
<VARIABLE RESISTOR>				C510	1-161-959-00	CERAMIC 22PF	10% 500V
RV701	1-230-641-11	RES. ADJ. METAL GLAZE 2.2K		C511	1-108-686-11	MYLAR 0.0033MF	10% 100V
RV702	1-230-619-11	RES. ADJ. METAL GLAZE 110K		C512	1-137-098-11	FILM 0.1MF	10% 100V
RV703	1-237-749-11	RES. ADJ. CARBON 2200		C513	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
RV704	1-237-749-11	RES. ADJ. CARBON 2200		C514	1-137-031-11	FILM 0.22MF	10% 100V
*****				C515	1-124-903-11	ELECT 1MF	20% 50V
*A-1642-035-A	D BOARD, COMPLETE (KV-C2161D)			C516	1-108-680-11	MYLAR 0.001MF	10% 100V
*A-1642-062-A	D BOARD, COMPLETE (KV-C2561D)			C517	1-124-252-00	ELECT 0.33MF	20% 50V
*A-1642-032-A	D BOARD, COMPLETE (KV-C2961D)			C518	1-124-902-00	ELECT 0.47MF	20% 50V
*4-341-751-01	EYELET			C519	1-136-173-00	FILM 0.47MF	5% 50V
*4-341-752-01	EYELET						
*4-368-683-01	SPRING				1-136-171-00	FILM 0.33MF	5% 50V
<CAPACITOR>							(KV-C216 1D, C2561D)
C002	1-163-205-00	CERAMIC CHIP 0.001MF	5% 50V	C520	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C003	1-124-925-11	ELECT 2.2MF	20% 50V	C521	1-137-098-11	FILM 0.1MF	10% 100V
C004	1-124-120-11	ELECT 220MF	20% 16V	C522	1-124-122-11	ELECT 100MF	20% 50V
C005	1-124-903-11	ELECT 1MF	20% 50V	C523	1-108-680-11	MYLAR 0.001MF	10% 100V
C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C524	1-108-798-11	MYLAR 0.0033MF	5% 50V
C009	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C525	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C010	1-124-120-11	ELECT 220MF	20% 16V	C526	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C011	1-163-031-11	CERAMIC CHIP 0.01MF	50V		1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C013	1-137-098-11	FILM 0.1MF	10% 100V	C527	1-137-098-11	FILM 0.1MF	10% 100V
C014	1-137-098-11	FILM 0.1MF	10% 100V	C531	1-124-190-00	ELECT 680MF	20% 25V
C015	1-124-902-00	ELECT 0.47MF	20% 50V	C532	1-124-122-11	ELECT 100MF	20% 50V
C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C533	1-137-096-11	FILM 0.068MF	10% 100V
C017	1-137-098-11	FILM 0.1MF	10% 100V	C534	1-124-120-11	ELECT 220MF	20% 16V
C018	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	C536	1-131-363-00	TANTALUM 4.7MF	10% 16V
C019	1-137-094-11	FILM 0.047MF	10% 100V	C537	1-124-903-11	ELECT 1MF	10% 100V
C021	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C538	1-108-680-11	MYLAR 0.001MF	5% 100V
				C539	1-163-129-00	CERAMIC CHIP 330PF	5% 50V

D

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The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-C2161D/C2561D/C2961D  
RM-816

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D501	8-719-911-19	DIODE 1SS119		L602	1-410-396-41	FERRITE BEAD INDUCTOR	
D504	8-719-911-55	DIODE U05G		L603	1-410-396-41	FERRITE BEAD INDUCTOR	
D506	8-719-800-76	DIODE 1SS226 (KV-C2161D, C2561D)		L604	1-410-671-31	INDUCTOR 47UH	
D508	8-719-911-19	DIODE 1SS119		L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
D509	8-719-911-19	DIODE 1SS119 (KV-C2561D, C2961D)		L606	1-412-529-11	INDUCTOR 22UH	
D511	8-719-911-55	DIODE U05G		L607	1-410-671-31	INDUCTOR 47UH	
D512	8-719-911-55	DIODE U05G		L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-C2961D)	
D513	8-719-010-34	DIODE UZ-4.7BSC		L803	1-459-104-00	COIL, WITH CORE	
D514	8-719-911-19	DIODE 1SS119 (KV-C2961D)		L804	1-408-239-00	INDUCTOR 4.7MMH	
D515	8-719-911-19	DIODE 1SS119 (KV-C2961D)		L805	1-459-652-12	HLC (KV-C2161D)	
D601	$\Delta$ 8-719-510-63	DIODE D4SB60L-F			1-459-755-11	COIL, HORIZONTAL LINEARITY (KV-C2561D)	
D602	8-719-300-33	DIODE RU-3AM			1-459-907-11	COIL, HORIZONTAL LINEARITY (KV-C2961D)	
D603	8-719-911-55	DIODE U05G		L806	1-459-115-00	COIL, DCC-H (KV-C2161D)	
D604	8-719-911-55	DIODE U05G			1-459-111-00	COIL, DRAM CORE (CD1) (KV-C2561D)	
D605	8-719-911-55	DIODE U05G			1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-C2961D)	
D606	8-719-300-33	DIODE RU-3AM		L809	1-420-872-00	COIL, AIR CORE	
D607	8-719-300-33	DIODE RU-3AM		L810	1-459-390-00	COIL (WITH CORE) (KV-C2161D)	
D608	8-719-300-33	DIODE RU-3AM			1-421-982-11	PMC (KV-C2561D)	
D609	8-719-982-24	DIODE MTZJ-33A			1-421-794-21	TRANSFORMER, FERRITE (PMT) (KV-C2961D)	
D610	8-719-300-59	DIODE CTU-12S					
D611	8-719-900-26	DIODE ERD29-08J					
D612	8-719-300-59	DIODE CTU-12S					
D613	8-719-979-85	DIODE EGP20G					
D614	8-719-979-85	DIODE EGP20G					
D616	8-719-921-54	DIODE MTZJ-6.2B					
D617	8-719-911-19	DIODE 1SS119					
D618	8-719-109-89	DIODE RD5.6ES-B2					
D619	8-719-982-24	DIODE MTZJ-33A					
D620	8-719-800-76	DIODE 1SS226					
D621	8-719-982-24	DIODE MTZJ-33A					
D622	8-719-911-19	DIODE 1SS119					
D623	8-719-911-19	DIODE 1SS119					
D624	8-719-911-19	DIODE 1SS119					
D630	8-719-921-91	DIODE MTZJ-15A					
D801	8-719-300-33	DIODE RU-3AM					
D802	8-719-300-33	DIODE RU-3AM					
D803	8-719-976-64	DIODE RGP02-17					
D804	8-719-911-55	DIODE U05G					
D805	8-719-911-55	DIODE U05G					
D806	8-719-945-80	DIODE ERC06-15S					
D807	8-719-945-80	DIODE ERC06-15S (KV-C2561D, C2961D)					
D808	8-719-928-08	DIODE ERD28-08S (KV-C2161D)					
	8-719-900-26	DIODE ERD29-08J (KV-C2561D, C2961D)					
<IC>							
IC001	8-759-047-60	IC SDA20560-A012					
IC002	8-759-000-47	IC MC14051BCP					
IC003	8-759-945-58	IC RC4558P					
IC005	8-759-748-56	IC SDA2546					
IC251	8-759-988-94	IC TDA2050					
IC261	4-812-134-00	RIVET NYLON, 3.5; IC251					
	8-759-988-94	IC TDA2050					
IC501	4-812-134-00	RIVET NYLON, 3.5; IC261					
IC502	8-759-970-73	IC TEA2028B					
	8-759-944-57	IC TDA8170					
IC601	8-759-988-95	IC TEA2260					
IC604	8-759-510-52	IC TEA7605					
IC608	8-759-929-62	IC LM7812CT					
<COIL>							
L501	1-408-225-00	INDUCTOR 3.3UH					
L601	1-420-872-00	COIL, AIR CORE					
L602	1-410-396-41	FERRITE BEAD INDUCTOR					
L603	1-410-396-41	FERRITE BEAD INDUCTOR					
L604	1-410-671-31	INDUCTOR 47UH					
L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)					
L606	1-412-529-11	INDUCTOR 22UH					
L607	1-410-671-31	INDUCTOR 47UH					
L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-C2961D)					
L803	1-459-104-00	COIL, WITH CORE					
L804	1-408-239-00	INDUCTOR 4.7MMH					
L805	1-459-652-12	HLC (KV-C2161D)					
	1-459-755-11	COIL, HORIZONTAL LINEARITY (KV-C2561D)					
	1-459-907-11	COIL, HORIZONTAL LINEARITY (KV-C2961D)					
L806	1-459-115-00	COIL, DCC-H (KV-C2161D)					
	1-459-111-00	COIL, DRAM CORE (CD1) (KV-C2561D)					
	1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-C2961D)					
L809	1-420-872-00	COIL, AIR CORE					
L810	1-459-390-00	COIL (WITH CORE) (KV-C2161D)					
	1-421-982-11	PMC (KV-C2561D)					
	1-421-794-21	TRANSFORMER, FERRITE (PMT) (KV-C2961D)					
<TRANSFORMER>							
LF1601	$\Delta$ 1-421-866-12	LFT					
LF1602	$\Delta$ 1-421-776-21	LFT					
LF1603	$\Delta$ 1-421-862-11	LFT					
T601	$\Delta$ 1-450-038-11	S.R.T (KV-C2161D, C2561D)					
	$\Delta$ 1-450-037-11	S.R.T (KV-C2961D)					
T602	$\Delta$ 1-424-277-11	TRANSFORMER, TRIGGER PULSE					
T801	$\Delta$ 1-437-090-21	HDT					
T802	$\Delta$ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)					
		(KV-C2161D, C2961D)					
	$\Delta$ 1-439-416-41	TRANSFORMER ASSY, FLYBACK (NX-1604)					
		(KV-C2561D)					
<IC LINK>							
PS601	$\Delta$ 1-532-984-91	LINK, IC 2A					
PS602	$\Delta$ 1-532-984-91	LINK, IC 2A					
PS603	$\Delta$ 1-532-679-91	LINK, IC 0.6A					
PS604	$\Delta$ 1-532-984-91	LINK, IC 2A					
<TRANSISTOR>							
Q001	8-729-901-01	TRANSISTOR DTC144EK					
Q002	8-729-901-01	TRANSISTOR DTC144EK					
Q003	8-729-216-22	TRANSISTOR 2SA1162-G					
Q004	8-729-216-22	TRANSISTOR 2SA1162-G					
Q005	8-729-901-01	TRANSISTOR DTC144EK					
Q006	8-729-901-01	TRANSISTOR DTC144EK					
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q502	8-729-216-22	TRANSISTOR 2SA1162-G					
Q505	8-729-140-96	TRANSISTOR 2SD774-34					
Q506	8-729-140-97	TRANSISTOR 2SB734-34					
Q507	8-729-216-22	TRANSISTOR 2SA1162-G					
Q598	8-729-216-22	TRANSISTOR 2SA1162-G					
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P					
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB					
Q603	8-729-122-03	TRANSISTOR 2SAT226A-P					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q604	8-729-216-22	TRANSISTOR 2SA1162-G		R051	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R052	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R053	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF		R054	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R055	1-216-037-00	METAL GLAZE 330 5%	1/10W
Q609	8-729-320-62	TRANSISTOR 2SD789-34		R056	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R057	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q804	8-729-304-50	TRANSISTOR 2SD1941-06		R058	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK		R059	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<RESISTOR>				R060	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR1	1-216-296-00	METAL GLAZE 0 5%	1/8W	R061	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR3	1-216-296-00	METAL GLAZE 0 5%	1/8W	R062	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR4	1-216-295-00	METAL GLAZE 0 5%	1/10W	R063	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR7	1-216-296-00	METAL GLAZE 0 5%	1/8W	R064	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R001	1-216-041-00	METAL GLAZE 470 5%	1/10W	R065	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R002	1-216-041-00	METAL GLAZE 470 5%	1/10W	R066	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R003	1-216-198-00	METAL GLAZE 1K 5%	1/8W	R067	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R004	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R068	1-216-174-00	METAL GLAZE 100 5%	1/8W
R005	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R069	1-216-174-00	METAL GLAZE 100 5%	1/8W
R006	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R070	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R007	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R071	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R008	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R072	1-216-222-00	METAL GLAZE 10K 5%	1/8W
R009	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R073	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R010	1-216-041-00	METAL GLAZE 470 5%	1/10W	R075	1-216-041-00	METAL GLAZE 470 5%	1/10W
R012	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R076	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R013	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R077	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R014	1-216-085-00	METAL GLAZE 33K 5%	1/10W	(KV-C2161D, C2961D)			
R015	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R078	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R016	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R079	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R017	1-216-689-11	METAL GLAZE 39K 5%	1/10W	R080	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R018	1-216-095-00	METAL GLAZE 82K 5%	1/10W	R081	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R019	1-216-025-00	METAL GLAZE 100 5%	1/10W	R083	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R020	1-216-025-00	METAL GLAZE 100 5%	1/10W	R084	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R085	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R022	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R086	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R024	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R087	1-216-035-00	METAL GLAZE 270 5%	1/10W
R025	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R088	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R026	1-216-182-00	METAL GLAZE 220 5%	1/8W	R093	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R027	1-216-025-00	METAL GLAZE 100 5%	1/10W	R094	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R028	1-216-025-00	METAL GLAZE 100 5%	1/10W	R095	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R029	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R096	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R030	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R098	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R031	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R251	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R032	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R252	1-216-039-00	METAL GLAZE 390 5%	1/10W
R033	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R253	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R034	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R254	1-216-357-00	METAL OXIDE 4.7 5%	1W F
R035	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R255	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R036	1-216-083-00	METAL GLAZE 27K 5%	1/10W	R256	1-216-115-00	METAL GLAZE 560K 5%	1/10W
R037	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R257	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R038	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R258	1-215-869-11	METAL OXIDE 1K 5%	1W F
R039	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R259	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R040	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R261	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R041	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R262	1-216-039-00	METAL GLAZE 390 5%	1/10W
R042	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R263	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R043	1-216-041-00	METAL GLAZE 470 5%	1/10W	R264	1-216-357-00	METAL OXIDE 4.7 5%	1W F
R044	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R265	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R045	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R266	1-216-115-00	METAL GLAZE 560K 5%	1/10W
R046	1-216-095-00	METAL GLAZE 82K 5%	1/10W	R267	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R047	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R268	1-215-869-11	METAL OXIDE 1K 5%	1W F
R048	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R269	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R049	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R270	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R050	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R271	1-216-045-00	METAL GLAZE 680 5%	1/10W
				R272	1-216-073-00	METAL GLAZE 10K 5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R549	1-216-454-11	METAL OXIDE	390 5% 2W F (KV-C2561D, C2961D)
R274	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R550	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R500	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R551	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R501	1-216-041-00	METAL GLAZE	470 5% 1/10W	R552	1-216-433-00	METAL OXIDE	1.2K 5% 1W F (KV-C2161D)
R502	1-216-033-00	METAL GLAZE	220 5% 1/10W	R553	1-215-869-11	METAL OXIDE	1K 5% 1W
R503	1-216-035-00	METAL GLAZE	270 5% 1/10W	R554	1-216-037-00	METAL GLAZE	330 5% 1/10W
R504	1-249-420-11	CARBON	1.8K 5% 1/4W	R555	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R505	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R556	1-216-025-00	METAL GLAZE	100 5% 1/10W
R506	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R557	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R509	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R558	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R510	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R559	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R514	1-216-033-00	METAL GLAZE	220 5% 1/10W	R560	1-216-037-00	METAL GLAZE	330 5% 1/10W
R515	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R561	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R570	1-216-045-00	METAL GLAZE	680 5% 1/10W (KV-C2961D)
R518	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R591	1-216-047-00	METAL GLAZE	820 5% 1/10W (KV-C2961D)
R519	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R592	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R520	1-216-037-00	METAL GLAZE	330 5% 1/10W	R593	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R521	1-216-025-00	METAL GLAZE	100 5% 1/10W	R594	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R522	1-215-469-00	METAL	100K 1% 1/4W	R597	1-216-041-00	METAL GLAZE	470 5% 1/10W
R523	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R598	1-215-900-11	METAL OXIDE	22K 5% 2W F
R524	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R600	1-249-381-11	CARBON	1 5% 1/4W
R525	1-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-C2161D, C2561D)	R601	1-216-353-00	METAL OXIDE	2.2 5% 1W F (KV-C2561D, C2961D)
R526	1-249-409-11	CARBON	220 5% 1/4W F	R603	1-215-906-11	METAL OXIDE	15 5% 3W F (KV-C2161D)
R527	1-216-077-00	METAL GLAZE	15K 5% 1/10W		1-216-469-11	METAL OXIDE	12 5% 3W F (KV-C2561D, C2961D)
R528	1-216-031-00	METAL GLAZE	180 5% 1/10W	R604	1-216-025-00	METAL GLAZE	100 5% 1/10W
R529	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R605	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R530	1-249-448-11	CARBON	1.2 5% 1/4W F	R606	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R531	1-216-099-00	METAL GLAZE	120K 5% 1/10W (KV-C2561D, C2961D)	R607	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R532	1-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-C2561D, C2961D)		1-216-067-00	METAL GLAZE	5.6K 5% 1/10W (KV-C2161D, C2561D)
R533	1-216-031-00	METAL GLAZE	180 5% 1/10W (KV-C2161D)	R608	1-216-488-11	METAL OXIDE	18K 5% 3W F (KV-C2961D)
	1-216-295-00	METAL GLAZE	0 5% 1/10W	R609	1-216-007-00	METAL GLAZE	18 5% 1/10W
R534	1-216-119-00	METAL GLAZE	820K 5% 1/10W (KV-C2561D, C2961D)	R610	1-244-941-00	CARBON	680K 5% 1/2W
R535	1-249-753-15	CARBON	4.7M 5% 1/4W (KV-C2161D)	R611	1-216-015-00	METAL GLAZE	39 5% 1/10W
	1-249-749-00	CARBON	2.2M 5% 1/4W (KV-C2561D, C2961D)	R612	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R613	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R537	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R614	1-205-758-11	WIREWOUND	100 10% 10W F
R538	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R616	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R539	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R617	1-216-037-00	METAL GLAZE	330 5% 1/10W
R540	1-216-013-00	METAL GLAZE	33 5% 1/10W	R618	1-216-431-11	METAL OXIDE	560 5% 1W F
R541	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R619	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R542	1-216-308-00	METAL GLAZE	4.7 5% 1/10W	R620	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R543	1-249-451-11	CARBON	2.2 5% 1/4W	R621	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R544	1-247-745-11	CARBON	330 5% 1/2W	R622	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R545	1-216-689-11	METAL GLAZE	39K 5% 1/10W (KV-C2161D)	R623	1-216-081-00	METAL GLAZE	22K 5% 1/10W
	1-216-081-00	METAL GLAZE	22K 5% 1/10W (KV-C2561D, C2961D)	R624	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R546	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R625	1-215-865-11	METAL OXIDE	220 5% 1W F
R547	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W (KV-C2161D)	R626	1-216-037-00	METAL GLAZE	330 5% 1/10W
	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W (KV-C2561D, C2961D)	R628	1-216-001-00	METAL GLAZE	10 5% 1/10W
R548	1-216-350-11	METAL OXIDE	1.2 5% 1W F (KV-C2161D)	R629	1-216-037-00	METAL GLAZE	330 5% 1/10W
	1-216-349-00	METAL OXIDE	1 5% 1W F (KV-C2561D, C2961D)	R631	1-216-465-11	METAL OXIDE	27K 5% 2W (KV-C2161D, C2561D)
R549	1-215-890-11	METAL OXIDE	470 5% 2W F (KV-C2161D)	R633	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				R634	1-216-430-11	METAL OXIDE	390 5% 1W F



The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R636	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R643	1-217-190-21	WIREWOUND	0.15 5% 2W F				
	1-217-189-21	WIREWOUND	0.12 5% 2W F				
			(KV-C2161D)				
			(KV-C2561D, C2961D)				
R651	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R653	1-205-758-11	WIREWOUND	100 10% 10W F				
R802	1-249-443-11	CARBON	0.47 5% 1/4W F				
R805	1-249-448-11	CARBON	1.2 5% 1/4W F				
R806	1-216-093-00	METAL GLAZE	68K 5% 1/10W				
R807	1-217-778-11	FUSIBLE	1K 5% 1W F				
R809	1-202-821-11	SOLID	1.8K 10% 1/2W				
R810	1-202-818-00	SOLID	1K 10% 1/2W				
R811	1-215-863-11	METAL OXIDE	100 5% 1W F				
			(KV-C2161D)				
	1-215-882-00	METAL OXIDE	22 5% 2W F				
R812	1-247-285-00	CARBON	75K 5% 1/2W				
			(KV-C2561D, C2961D)				
			(KV-C2161D)				
	1-249-494-11	CARBON	68K 5% 1/2W				
			(KV-C2561D)				
	1-247-281-00	CARBON	51K 5% 1/2W				
			(KV-C2961D)				
R815	1-215-884-11	METAL OXIDE	47 5% 2W F				
R816	1-215-868-00	METAL OXIDE	680 5% 1W F				
R817	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R820	1-249-403-11	CARBON	68 5% 1/4W				
R821	1-247-725-11	CARBON	10K 5% 1/4W F				
R822	1-217-778-11	FUSIBLE	1K 5% 1W F				
R825	1-216-349-00	METAL OXIDE	1 5% 1W F				
			(KV-C2161D)				
	1-216-345-11	METAL OXIDE	0.47 5% 1W F				
			(KV-C2561D, C2961D)				
R826	1-216-097-00	METAL GLAZE	100K 5% 1/10W				
R827	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R828	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R829	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W				
R831	1-249-451-11	CARBON	2.2 5% 1/4W				
R1601A	1-246-513-75	CARBON	47K 5% 1/4W				
R1602A	1-244-945-91	CARBON	1M 5% 1/2W				
R1603A	1-217-328-11	WIREWOUND	2.7 10% 7W F				
R1604A	1-246-513-75	CARBON	47K 5% 1/4W				
R1605A	1-218-265-91	METAL GLAZE	8.2M 5% 1W				
R5501	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R5503	1-216-308-00	METAL GLAZE	4.7 5% 1/10W				
			(KV-C2161D, C2561D)				
	1-216-001-00	METAL GLAZE	10 5% 1/10W				
			(KV-C2961D)				
R5504	1-216-121-00	METAL GLAZE	1M 5% 1/10W				
R5505	1-216-001-00	METAL GLAZE	10 5% 1/10W				
R5506	1-216-075-00	METAL GLAZE	12K 5% 1/10W				
			(KV-C2961D)				
		<VARIABLE RESISTOR>					
RV501	1-238-013-11	RES, ADJ, CARBON 2.2K					
RV502	1-238-016-11	RES, ADJ, CARBON 10K					
RV601	1-238-011-11	RES, ADJ, CARBON 470					
		<SPARK GAP>					
SG801	1-519-422-11	GAP, SPARK					
		<THERMISTOR>					
		THP601A 1-808-059-32 THERMISTOR, POSITIVE					
		*****					
		*1-634-193-11 VM BOARD (KV-C2961D)					
		*****					
		<CAPACITOR>					
C751	1-101-361-00	CERAMIC	150PF 5% 50V				
C752	1-108-629-11	MYLAR	0.018MF 10% 100V				
C753	1-137-047-11	FILM	0.01MF 10% 400V				
C754	1-102-980-00	CERAMIC	270PF 5% 50V				
C757	1-108-692-11	MYLAR	0.01MF 10% 200V				
C759	1-124-907-11	ELECT	10MF 20% 50V				
C760	1-124-917-11	ELECT	33MF 20% 50V				
C761	1-101-006-00	CERAMIC	0.047MF 50V				
C762	1-137-047-11	FILM	0.01MF 10% 400V				
		<COIL>					
L751	1-408-413-00	INDUCTOR	22UH				
L770	1-410-665-31	INDUCTOR	15UH				
		<TRANSISTOR>					
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q753	8-729-140-97	TRANSISTOR 2SB734-34					
Q754	8-729-140-96	TRANSISTOR 2SD774-34					
		<RESISTOR>					
R751	1-249-418-11	CARBON	1.2K 5% 1/4W				
R752	1-249-426-11	CARBON	5.6K 5% 1/4W				
R753	1-249-414-11	CARBON	560 5% 1/4W				
R754	1-249-434-11	CARBON	27K 5% 1/4W				
R755	1-249-405-11	CARBON	100 5% 1/4W				
R756	1-249-419-11	CARBON	1.5K 5% 1/4W				
R757	1-249-405-11	CARBON	100 5% 1/4W				
R758	1-249-409-11	CARBON	220 5% 1/4W				
R760	1-249-411-11	CARBON	330 5% 1/4W				
R761	1-249-429-11	CARBON	10K 5% 1/4W				
R762	1-247-895-00	CARBON	470K 5% 1/4W				
R763	1-249-429-11	CARBON	10K 5% 1/4W				
R764	1-249-389-11	CARBON	4.7 5% 1/4W F				
R765	1-249-389-11	CARBON	4.7 5% 1/4W F				
R766	1-247-753-11	CARBON	1.2K 5% 1/2W				
R767	1-247-751-11	CARBON	820 5% 1/2W				
R768	1-215-887-00	METAL OXIDE	150 5% 2W F				
R769	1-212-889-00	FUSIBLE	220 5% 1/4W F				
		<CONNECTOR>					
VM73	*1-568-878-51	PIN, CONNECTOR 3P					
VM88	*1-568-878-51	PIN, CONNECTOR 3P					
		*****					
		*A-1645-013-A V BOARD, COMPLETE (KV-C216D, C2961D)					
		*****					
		*A-1645-022-A V BOARD, COMPLETE (KV-C256D)					
		*****					

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-C2161D/C2561D/C2961D  
RM-810

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>				<TRANSISTOR>			
C1	1-126-101-11	ELECT 100MF	20% 16V	Q1	8-729-900-53	TRANSISTOR DTC114EK	
C2	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q2	8-729-920-92	TRANSISTOR 2SD2096-EF	
C3	1-124-120-11	ELECT 220MF	20% 16V	Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C4	1-163-077-00	CERAMIC CHIP 0.1MF	50V	Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C5	1-124-120-11	ELECT 220MF	20% 16V	Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6	
C6	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6	
C7	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6	
C8	1-163-235-11	CERAMIC CHIP 22PF	5% (KV-C2561D) 50V (KV-C2561D)	Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C9	1-163-235-11	CERAMIC CHIP 22PF	5% 50V (KV-C2561D)	<RESISTOR>			
C10	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR01	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C11	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR02	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C12	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR03	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C13	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR08	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C14	1-124-927-11	ELECT 4.7MF	20% 50V	JR09	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C15	1-126-233-11	ELECT 22MF	20% 50V	JR11	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C16	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C17	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR17	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C18	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR18	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C26	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C27	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C28	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C29	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	JR23	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C32	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C33	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W	
<CONNECTOR>				JR26	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR201	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR204	1-216-295-00	METAL GLAZE 0 5% 1/10W	
<DIODE>				JR207	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D1	8-719-105-91	DIODE RD5.6M-B2		JR208	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D3	8-719-914-44	DIODE DAP202K (KV-C2161D,C2961D)		JR211	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D4	8-719-104-34	DIODE 1S2836 (KV-C2561D)		JR213	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D5	8-719-400-18	DIODE MA152WK		JR219	1-216-296-00	METAL GLAZE 0 5% 1/10W	
	8-719-914-44	DIODE DAP202K (KV-C2161D,C2961D)		JR220	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D6	8-719-104-34	DIODE 1S2836 (KV-C2561D)		JR223	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D7	8-719-400-18	DIODE MA152WK		R1	1-218-326-11	METAL GLAZE 470 5% 1/10W	
D9	8-719-105-52	DIODE RD3.6M-B2		R3	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
	8-719-106-17	DIODE RD6.8M-B2		R4	1-216-025-00	METAL GLAZE 100 5% 1/10W	
<IC>				R5	1-216-047-00	METAL GLAZE 820 5% 1/10W	
IC1	8-759-039-18	IC SDA20162-B002		R6	1-216-001-00	METAL GLAZE 10 5% 1/10W	
IC2	8-759-045-54	IC SAA5246P/E/M4A		R7	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
IC3	8-759-510-49	IC FCB61C65L-70P		R8	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
<COIL>				R9	1-216-308-00	METAL GLAZE 4.7 5% 1/10W	
L1	1-408-403-00	INDUCTOR 3.3UH		R02	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W	
L2	1-408-407-00	INDUCTOR 6.8UH		R10	1-218-325-11	METAL GLAZE 120 5% 1/4W	
L3	1-408-407-00	INDUCTOR 6.8UH		R11	1-218-325-11	METAL GLAZE 120 5% 1/4W	
L4	1-408-407-00	INDUCTOR 6.8UH		R12	1-218-325-11	METAL GLAZE 120 5% 1/4W	
<IC LINK>				R13	1-216-025-00	METAL GLAZE 100 5% 1/10W	
PS1	$\Delta$ 1-532-679-91	LINK, IC 0.6A		R14	1-216-001-00	METAL GLAZE 10 5% 1/10W	
				R15	1-216-013-00	METAL GLAZE 33 5% 1/10W	
				R16	1-216-013-00	METAL GLAZE 33 5% 1/10W	
				R17	1-216-013-00	METAL GLAZE 33 5% 1/10W	
				R18	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R19	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R20	1-216-041-00	METAL GLAZE 470 5% 1/10W	
				R21	1-216-041-00	METAL GLAZE 470 5% 1/10W	
				R22	1-216-168-00	METAL GLAZE 56 5% 1/8W	
				R23	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W	
				R24	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
				R25	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	

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[illegible]



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C242	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-43	*1-564-524-11	PLUG, CONNECTOR 9P	
C243	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-44	*1-564-527-11	PLUG, CONNECTOR 12P	
C244	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
C245	1-163-033-00	CERAMIC CHIP 0.022MF	50V				
C1401	1-124-907-11	ELECT 10MF	20% 50V				
C1402	1-126-103-11	ELECT 470MF	20% 16V				
C1403	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
C1404	1-137-098-11	FILM 0.1MF	10% 100V				
C1405	1-163-029-11	CERAMIC CHIP 0.0047MF	50V				
C1406	1-137-098-11	FILM 0.1MF	10% 100V				
C1407	1-124-910-11	ELECT 47MF	20% 50V				
C1408	1-124-122-11	ELECT 100MF	20% 50V				
C1409	1-126-233-11	ELECT 22MF	20% 50V				
C1410	1-124-907-11	ELECT 10MF	20% 50V				
C1411	1-124-907-11	ELECT 10MF	20% 50V				
C1412	1-124-910-11	ELECT 47MF	20% 50V				
C1413	1-124-910-11	ELECT 47MF	20% 50V				
C1414	1-124-907-11	ELECT 10MF	20% 50V				
C1415	1-137-098-11	FILM 0.1MF	10% 100V				
C1416	1-137-098-11	FILM 0.1MF	10% 100V				
C1417	1-124-120-11	ELECT 220MF	20% 16V				
C1418	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
C1419	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
C1425	1-124-902-00	ELECT 0.47MF	20% 50V				
C1426	1-124-902-00	ELECT 0.47MF	20% 50V				
C1427	1-163-029-11	CERAMIC CHIP 0.0047MF	50V				
C1428	1-163-029-11	CERAMIC CHIP 0.0047MF	50V				
C1429	1-163-029-11	CERAMIC CHIP 0.0047MF	50V				
C1430	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
C1431	1-126-529-11	ELECT 0.47MF	20% 50V				
C1432	1-124-902-00	ELECT 0.47MF	20% 50V				
C1433	1-124-122-11	ELECT 100MF	20% 50V				
C1436	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				
C1437	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				
C1438	1-137-047-11	FILM 0.01MF	10% 400V				
C1439	1-137-047-11	FILM 0.01MF	10% 400V				
C1440	1-124-907-11	ELECT 10MF	20% 50V				
C1441	1-124-907-11	ELECT 10MF	20% 50V				
C1442	1-137-098-11	FILM 0.1MF	10% 100V				
C1443	1-137-098-11	FILM 0.1MF	10% 100V				
C1444	1-124-910-11	ELECT 47MF	20% 50V				
C1445	1-102-824-00	CERAMIC 470PF	5% 50V				
C1446	1-102-824-00	CERAMIC 470PF	5% 50V				
C1501	1-124-927-11	ELECT 4.7MF	20% 50V				
C1502	1-124-903-11	ELECT 1MF	20% 50V				
C1503	1-108-680-11	MYLAR 0.001MF	10% 100V				
C1504	1-124-910-11	ELECT 47MF	20% 50V				
C1505	1-137-094-11	FILM 0.047MF	10% 100V				
C1507	1-108-686-11	MYLAR 0.0033MF	10% 100V				
C1508	1-124-903-11	ELECT 1MF	20% 50V				
C1509	1-124-903-11	ELECT 1MF	20% 50V				
C1511	1-124-927-11	ELECT 4.7MF	20% 50V				
C1512	1-137-045-11	FILM 0.0068MF	10% 400V				
C1513	1-163-105-00	CERAMIC CHIP 33PF	(KV-C2161D, C2561D) 5% 50V				
C1514	1-137-102-11	FILM 0.022MF	10% 250V				
C1515	1-102-117-00	CERAMIC 820PF	(KV-C2161D, C2561D) 10% 50V				

# J1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R203	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1420	1-216-295-00	METAL GLAZE	0 5% 1/10W
R204	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1421	1-216-295-00	METAL GLAZE	0 5% 1/10W
R205	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1422	1-216-025-00	METAL GLAZE	100 5% 1/10W
R206	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1423	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R207	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1424	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R208	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1425	1-216-045-00	METAL GLAZE	680 5% 1/10W
R209	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1426	1-216-025-00	METAL GLAZE	100 5% 1/10W
R210	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1427	1-216-001-00	METAL GLAZE	10 5% 1/10W
R211	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1428	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R212	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1429	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R213	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1430	1-216-170-00	METAL GLAZE	68 5% 1/8W
R214	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1431	1-216-041-00	METAL GLAZE	470 5% 1/10W
R215	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1432	1-216-041-00	METAL GLAZE	470 5% 1/10W
R216	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1433	1-216-033-00	METAL GLAZE	220 5% 1/10W
R217	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1434	1-249-393-11	CARBON	10 5% 1/4W F
R218	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1437	1-249-434-11	CARBON	27K 5% 1/4W
R219	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1440	1-216-045-00	METAL GLAZE	680 5% 1/10W
R220	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1441	1-216-045-00	METAL GLAZE	680 5% 1/10W
R221	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1442	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R222	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1443	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R223	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1444	1-216-033-00	METAL GLAZE	220 5% 1/10W
R224	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1445	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R225	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1446	1-216-033-00	METAL GLAZE	220 5% 1/10W
R226	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1447	1-216-033-00	METAL GLAZE	220 5% 1/10W
R227	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1448	1-216-025-00	METAL GLAZE	100 5% 1/10W
R228	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1449	1-216-023-00	METAL GLAZE	82 5% 1/10W
R229	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1452	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R230	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R1453	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R231	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1454	1-216-180-00	METAL GLAZE	180 5% 1/8W
R232	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1455	1-216-180-00	METAL GLAZE	180 5% 1/8W
R233	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1457	1-216-025-00	METAL GLAZE	100 5% 1/10W
R234	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1459	1-216-025-00	METAL GLAZE	100 5% 1/10W
R235	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1460	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R236	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1461	1-216-190-00	METAL GLAZE	470 5% 1/8W
R240	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1462	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R241	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1463	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R242	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1464	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R243	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1465	1-216-023-00	METAL GLAZE	82 5% 1/10W
R244	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1466	1-216-033-00	METAL GLAZE	220 5% 1/10W
R245	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1467	1-216-025-00	METAL GLAZE	100 5% 1/10W
R246	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1468	1-216-025-00	METAL GLAZE	100 5% 1/10W
R247	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1469	1-216-025-00	METAL GLAZE	100 5% 1/10W
R248	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1470	1-216-025-00	METAL GLAZE	100 5% 1/10W
R249	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1471	1-216-023-00	METAL GLAZE	82 5% 1/10W
R250	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1472	1-216-023-00	METAL GLAZE	82 5% 1/10W
R1400	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1473	1-216-023-00	METAL GLAZE	82 5% 1/10W
R1401	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1474	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1402	1-216-170-00	METAL GLAZE	68 5% 1/8W	R1476	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1403	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1477	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1404	1-216-178-00	METAL GLAZE	150 5% 1/8W	R1478	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1405	1-249-434-11	CARBON	27K 5% 1/4W	R1480	1-216-190-00	METAL GLAZE	470 5% 1/8W
R1407	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1482	1-216-178-00	METAL GLAZE	150 5% 1/8W
R1408	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1483	1-216-178-00	METAL GLAZE	150 5% 1/8W
R1409	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1484	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1410	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1485	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1411	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1486	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1412	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1487	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1413	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1488	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1414	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1489	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1415	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1501	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1416	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1502	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1417	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1503	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1418	1-247-738-11	CARBON	82 5% 1/2W F	R1504	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R1419	1-216-295-00	METAL GLAZE	0 5% 1/10W				

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1505	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C21	1-126-233-11	ELECT 22MF 20% 50V	
R1506	1-216-113-00	METAL GLAZE 470K 5% 1/10W		C22	1-137-098-11	FILM 0.1MF 10% 100V	
R1509	1-216-105-00	METAL GLAZE 220K 5% 1/10W		C23	1-137-031-11	FILM 0.22MF 10% 100V	
R1510	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W		C24	1-124-034-51	ELECT 33MF 20% 16V	
R1511	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C25	1-137-102-11	FILM 0.022MF 10% 250V	
R1512	1-216-073-00	METAL GLAZE 10K 5% 1/10W		C26	1-137-094-11	FILM 0.047MF 10% 100V	
R1513	1-216-091-00	METAL GLAZE 56K 5% 1/10W		C27	1-124-903-11	ELECT 1MF 20% 50V	
R1514	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C28	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
R1515	1-216-117-00	METAL GLAZE 680K 5% 1/10W		C29	1-124-903-11	ELECT 1MF 20% 50V	
		(KV-C2161D, C2561D)		C30	1-124-903-11	ELECT 1MF 20% 50V	
R1516	1-216-079-00	METAL GLAZE 18K 5% 1/10W		C31	1-137-047-11	FILM 0.01MF 10% 400V	
R1517	1-216-033-00	METAL GLAZE 220 5% 1/10W		C32	1-130-479-00	MYLAR 0.0047MF 5% 50V	
R1519	1-216-101-00	METAL GLAZE 150K 5% 1/10W		C33	1-163-081-00	CERAMIC CHIP 0.22MF 25V	
R1520	1-216-113-00	METAL GLAZE 470K 5% 1/10W		C34	1-137-031-11	FILM 0.22MF 10% 100V	
		(KV-C2161D, C2561D)		C35	1-124-907-11	ELECT 10MF 20% 50V	
	1-216-111-00	METAL GLAZE 390K 5% 1/10W		C36	1-163-119-00	CERAMIC CHIP 120PF 5% 50V	
R1521	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W		C37	1-124-477-11	ELECT 47MF 20% 16V	
R1550	1-216-349-00	METAL OXIDE 1 5% 1W	F	C38	1-124-477-11	ELECT 47MF 20% 16V	
		(KV-C2961D)		C39	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
R1556	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W				<FILTER>	
		<VARIABLE RESISTOR>		CDA1	1-404-751-11	DISCRIMINATOR, CERAMIC	
RV1501	1-238-023-11	RES, ADJ, CARBON 470K		CDA2	1-404-750-11	DISCRIMINATOR, CERAMIC	
RV1502	1-238-016-11	RES, ADJ, CARBON 10K		SFT1	1-527-840-00	FILTER, CERAMIC	
RV1503	1-238-017-11	RES, ADJ, CARBON 22K		SFT2	1-527-839-00	FILTER, CERAMIC	
RV1504	1-238-012-11	RES, ADJ, CARBON 1K				<DIODE>	
RV1505	1-238-023-11	RES, ADJ, CARBON 470K		D3	8-719-400-18	DIODE MA152WK	
RV1506	1-238-017-11	RES, ADJ, CARBON 22K				<IC>	
RV1507	1-238-009-11	RES, ADJ, CARBON 220		IC1	8-759-003-90	IC TBA129	
RV1508	1-238-016-11	RES, ADJ, CARBON 10K		IC2	8-759-003-90	IC TBA129	
RV1509	1-238-023-11	RES, ADJ, CARBON 470K		IC3	8-759-030-48	IC TDA6600-2	
		*****		IC4	8-759-513-48	IC TDA2595/V9	
*A-1654-004-A	IFG BOARD, COMPLETE (KV-C2161D)	*****				<CONNECTOR>	
*A-1654-005-A	IFG BOARD, COMPLETE (KV-C2561D)	*****		IFG13	*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P	
*A-1654-008-A	IFG BOARD, COMPLETE (KV-C2961D)	*****				<COIL>	
		<CAPACITOR>		L1	1-408-410-00	INDUCTOR 12UH	
C1	1-163-031-11	CERAMIC CHIP 0.01MF 50V		L2	1-408-410-00	INDUCTOR 12UH	
C2	1-163-031-11	CERAMIC CHIP 0.01MF 50V		L3	1-410-064-11	INDUCTOR 2.7MMH	
C3	1-163-031-11	CERAMIC CHIP 0.01MF 50V		L4	1-408-421-00	INDUCTOR 100UH	
C4	1-163-031-11	CERAMIC CHIP 0.01MF 50V		L5	1-408-421-00	INDUCTOR 100UH	
C5	1-163-031-11	CERAMIC CHIP 0.01MF 50V				<TRANSISTOR>	
C6	1-163-031-11	CERAMIC CHIP 0.01MF 50V		Q2	8-729-901-00	TRANSISTOR DTC124EK	
C7	1-124-903-11	ELECT 1MF 20% 50V		Q3	8-729-216-22	TRANSISTOR 2SA1162-G	
C8	1-124-907-11	ELECT 10MF 20% 50V		Q4	8-729-901-00	TRANSISTOR DTC124EK	
C9	1-130-471-00	MYLAR 0.001MF 5% 50V				<RESISTOR>	
C10	1-163-121-00	CERAMIC CHIP 150PF 5% 50V		JR8	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C11	1-163-119-00	CERAMIC CHIP 120PF 5% 50V		JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C12	1-136-298-00	FILM 0.0033MF 2% 100V		R1	1-216-045-00	METAL GLAZE 680 5% 1/10W	
C13	1-124-477-11	ELECT 47MF 20% 16V		R2	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C14	1-124-477-11	ELECT 47MF 20% 16V		R3	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C15	1-124-477-11	ELECT 47MF 20% 16V		R5	1-216-045-00	METAL GLAZE 680 5% 1/10W	
C16	1-124-477-11	ELECT 47MF 20% 16V		R6	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C17	1-124-907-11	ELECT 10MF 20% 50V					
C18	1-137-047-11	FILM 0.01MF 10% 400V					
C19	1-137-047-11	FILM 0.01MF 10% 400V					
C20	1-126-233-11	ELECT 22MF 20% 50V					

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R7	1-216-043-00	METAL GLAZE 560 5%	1/10W				
R9	1-216-073-00	METAL GLAZE 10K 5%	1/10W				
R11	1-216-095-00	METAL GLAZE 82K 5%	1/10W				
R12	1-216-097-00	METAL GLAZE 100K 5%	1/10W				
R13	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W				
R15	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W				
R16	1-216-097-00	METAL GLAZE 100K 5%	1/10W				
R17	1-216-097-00	METAL GLAZE 100K 5%	1/10W				
R18	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W				
R19	1-216-097-00	METAL GLAZE 100K 5%	1/10W				
R20	1-216-075-00	METAL GLAZE 12K 5%	1/10W				
R22	1-216-099-00	METAL GLAZE 120K 5%	1/10W				
R24	1-216-089-00	METAL GLAZE 47K 5%	1/10W				
R25	1-216-077-00	METAL GLAZE 15K 5%	1/10W				

## <VARIABLE RESISTOR>

RV1	1-238-016-11	RES, ADJ, CARBON 10K
RV2	1-238-019-11	RES, ADJ, CARBON 47K

## MISCELLANEOUS

Δ 1-426-383-11	COIL, DEMAGNETIZATION (KV-C2161D)
Δ 1-426-372-11	COIL, DEMAGNETIZATION (KV-C2561D)
Δ 1-426-398-11	COIL, DEMAGNETIZATION (KV-C2961D)
Δ 1-451-295-11	DEFLECTION YOKE (Y21PFA2) (KV-C2161D)
Δ 1-451-311-21	DEFLECTION YOKE (Y25FXA) (KV-C2561D)
Δ 1-451-313-21	DEFLECTION YOKE (Y29FXA) (KV-C2961D)
1-452-032-00	MAGNET, DISK; 10MM φ
1-452-094-00	MAGNET, ROTABLE DISK; 15MM φ
1-452-277-00	MAGNET, BMC (KV-C2161D)
Δ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)
	(KV-C2961D)
1-544-525-11	SPEAKER (KV-C2161D)
1-504-146-11	SPEAKER (5X11CM) (KV-C2561D, C2961D)
Δ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)
V901 Δ 8-738-758-05	PICTURE TUBE (A51JXH61X) (KV-C2161D)
Δ 8-733-231-05	PICTURE TUBE (A59JWC61X) (KV-C2561D)
Δ 8-733-831-05	PICTURE TUBE (A68JYL61X) (KV-C2961D)

## ACCESSORIES AND PACKING MATERIALS

3-755-462-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/ FRENCH/DUTCH/ITALIAN/PORTUGUESE)
	(KV-C2161D)
*4-033-049-01	CUSHION (LOWER) (ASSY) (KV-C2161D)
*4-033-050-01	CUSHION (UPPER) (ASSY) (KV-C2161D)
*4-033-051-01	INDIVIDUAL CARTON (KV-C2161D)
*4-380-340-01	BAG, PROTECTION (KV-C2161D)
*4-202-040-01	INDIVIDUAL CARTON (KV-C2561D)
*4-202-041-01	CUSHION (UPPER) (ASSY) (KV-C2561D)
*4-202-042-01	CUSHION (LOWER) (ASSY) (KV-C2561D)
4-200-974-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/ FRENCH/DUTCH/ITALIAN/PORTUGUESE)
	(KV-C2561D)
*4-396-065-01	BAG, PROTECTION (KV-C2561D)
*4-202-005-01	INDIVIDUAL CARTON (KV-C2961D)
*4-202-006-01	CUSHION (UPPER) (ASSY) (KV-C2961D)
*4-202-009-01	CUSHION (BOTTOM) (KV-C2961D)
4-200-973-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/ FRENCH/DUTCH/ITALIAN/PORTUGUESE)
	(KV-C2961D)

\*4-384-027-01 BAG, PROTECTION (KV-C2961D)

## REMOTE COMMANDER

1-465-796-11	CONTROL UNIT, REMOTE (RM-816)
4-031-670-01	COVER, POCKET (FOR RM-816)